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*The Marquis of Stafford.*



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THE  
FAMILIES  
OF  
PLANTS.

IN TWO VOLUMES.

VOL. II.

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THE  
FAMILIES  
OF  
PLANTS  
IN TWO VOLUMES  
VOL. II.

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THE  
FAMILIES  
OF  
PLANTS,  
WITH THEIR NATURAL CHARACTERS,  
ACCORDING TO THE  
NUMBER, FIGURE, SITUATION, AND PROPORTION  
OF ALL THE PARTS OF FRUCTIFICATION.

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TRANSLATED FROM THE LAST EDITION,  
(AS PUBLISHED BY DR. REICHARD)

OF THE  
GENERA PLANTARUM,  
AND OF THE  
MANTISSÆ PLANTARUM  
OF THE ELDER LINNEUS;  
AND FROM THE  
SUPPLEMENTUM PLANTARUM  
OF THE YOUNGER LINNEUS,  
WITH ALL THE NEW  
FAMILIES OF PLANTS,  
FROM  
THUNBERG AND L'HERITIER.  
TO WHICH IS PREFIX'D AN ACCENTED CATALOGUE OF THE NAMES  
OF PLANTS, WITH THE ADJECTIVES APPLY'D TO THEM,  
AND OTHER BOTANIC TERMS, FOR THE PURPOSE OF  
TEACHING THEIR RIGHT PRONUNCIATION.

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VOL. II.

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BY A BOTANICAL SOCIETY AT LICHFIELD.

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MDCCLXXXVII.



16775

## CLASS XIV.

## TWO POWERS.

(Didynàmia.)

**TWO POWERS.** (Didynamia) \* The lip'd and  
mailed flowers of Tournef. the  
one-petal'd irregular flowers of  
Riv.

**CAL.** *Perianth* one-leaved, erect, tubular, five-cleft, with unequal  
segments, permanent.

**COR.** one-petal'd, erect, whose tubular base contains the honey,  
and supplies the place of a nectary.

The *mouth* commonly grinning: the *upper Lip* straight; the  
*under Lip* expanding, three-cleft: the *middle* division broader.

**STAM.** *Filaments* four, linear, inserted into the tube of the corol, in-  
clining towards the back of it; of which the *two* intermediate  
and nearest ones are shorter: all parallel, rarely surpassing the  
length of the corol. *Anthers* oftner covered by the upper lip  
of the corol and converging by pairs.

**PIST.** *Germ* oftner above, *Style* one, thread-form, inflected in the  
same manner as the filaments, oftner placed between them,  
a little surpassing them in length, slightly incurved at the  
summit. *Stigma* commonly two-cleft.

**PER.** either none, (*seed-naked*); or present (*seed-covered*), oftner  
two-cell'd.

**SEEDS** either (if no pericarp) four, concealed in the bottom of the  
calyx, as in a capsule; or (if any pericarp) many, affixed to  
the receptacle placed in the middle of the pericarp.

**Obs.** *The flowers of this family for the most part are nearly erect, but ra-*  
*ther inclining from the stem at an acute angle; by which the corol*  
*can more easily cover the anthers, nor can it be so drench'd with*  
*rain, but that the dust may fall upon the stigma.*

*The essential character consists in four stamens, of which the two*  
*nearest are shorter, converging (with one style of the pistil) within*  
*an unequal corol.*

## TWO POWERS.

*(Didynámia.)*

## I. SEED-NAKED.

*(Gymnospermia.)*

705 Ájuga.  
 706 Teúcrium.  
 707 Saturéia.  
 708 Thýmbra.  
 709 Hyssópus.  
 710 Népetá.  
 711 Lavéndula.  
 712 Siderítis.  
 713 Méntha.  
 1236 Perílla.  
 714 Glecóma.  
 716 Lámium.  
 717 Galeópfis.  
 718 Betónica.  
 719 Stáchys.  
 720 Ballóta.  
 721 Marrúbium.  
 722 Leonúrus.  
 723 Phlómis.  
 724 Mollucélla.  
 725 Clinopódium.  
 726 Oríganum.  
 727 Thýmus.  
 728 Melíssa.  
 729 Dracocéphalum.

730 Hormínium.  
 731 Melíttis.  
 732 Ócymum.  
 733 Trichostéma.  
 734 Scutellária.  
 735 Prunélla.  
 736 Cleónia.  
 737 Prásium.  
 738 Phrýma.

## II. SEED-COVERED.

*(Angiospermia.)*

1408 Castilléia.  
 739 Bártfia.  
 740 Rhinánthus.  
 741 Euphrásia.  
 742 Melampýrum.  
 743 Lathráa.  
 744 Schwalbéa.  
 745 Tózzia.  
 746 Pediculáris.  
 747 Gerárdia.  
 748 Chelóne.  
 749 Gesnéria.

750 An-

750	Antirrhinum.	774	Linnæa.
751	Cymbária.	775	Sibthórpiá.
1407	Thumbérgia.	776	Limosélla.
752	Craniolária.	1265	Vandéllia.
753	Martýnia.	777	Sternódia.
754	Torénia.	778	Obolária.
755	Belléria.	779	Orobánche.
756	Scropolária.	1317	Hyobánche.
757	Célfia.	780	Dodártia.
1405	Hemímeris.	781	Líppia.
758	Digitális.	782	Séíamum.
759	Bigónia.	783	Mímulus.
760	Citharéxylon.	784	Ruéllia.
761	Halléria.	785	Barléria.
762	Crescéntia.	786	Duránta.
763	Gmelína.	787	Oviéda.
764	Petrcea.	1406	Millingtónia.
1316	Prémna.	788	Volkaméria.
765	Lantána.	789	Clerodéndrum.
766	Cornútia.	790	Vítex.
767	Loesélla.	791	Bóntia.
768	Caprária.	1237	Avicénnia.
1315	Lindérnia.	792	Columnéa.
769	Selágo.	793	Acánthus.
1264	Manúlea.		Aléctra.
770	Hebenstrétia.	794	Pedálium.
771	Erínus.	1409	Amasónia.
772	Büchnéra.	795	Meliánthus.
773	Browállia.		Dombéya.

## I. S E E D - N A K E D.

(Gymnospermia).

## 705. AJUGA. \* Bugula Tournef. 98. Bugle.

CAL. Perianth one-leaved, short, half-fivecleft, subequal, permanent.

COR. one-petal'd, grinning. Tube cylindric, incurved. Upper lip very small; erect, two-cleft, obtuse. Under lip large, expanding, three-cleft, obtuse: the middle division largest, inverse-hearted: the lateral ones small.

STAM. Filaments four, awl'd, erect, longer than the upper lip, of which two are shorter. Anthers twin.

PIST. Germ four-cleft. Style thread-form, the situation and length of the stamens. Stigmas two, slender, of which the inferior is shorter.

PER. none. Calyx converging, cherishing the seeds in its bosom.

SEEDS four, oblongish.

## 706. TEUCRIUM. \* Tournef. 93. Polium Tournef. 98. Chamædrys Tournef. 97. Chamæpitys Tournef. 98. Germander. Wood-sage.

CAL. Perianth one-leaved, half-fivecleft, acute, subequal, gibbous on one side at the base, permanent.

COR. one-petal'd, grinning. Tube cylindric, short, ending in an incurved throat. Upper lip erect, acute, deeply two-parted beyond the base, with distant divisions at the sides. Under lip expanding, three-cleft; the lateral divisions the form of the upper lip, erectish: the middle one largest, rather rounded.

STAM. Filaments four, awl'd, longer than the upper lip of the corol, ascending between the divisions of it, prominent. Anthers small.

PIST. Germ four-parted. Style thread-form, the situation and size of the stamens. Stigmas two, slender.

PER. none. Calyx unchanged, cherishing the seeds in its bottom.

SEEDS four, roundish.

OBS. The upper lip of the corol divided beyond the base, and gaping, resembles a corol destitute of an upper lip.

Teucrium T. Calyx bell'd, the divisions of the under lip of the corol concave.

Polium T. Flowers collected in a head, terminating the branches.

Chamædrys T. Flowers from the wings of the leaves, calyx tubular.

Marum Boerb. Leaves of serpyllum, the odour acrid.

Scordium T. Raj. The odour of Garlick.

Iva. Dill. Calyx very gibbous below.

707. SA-

707. SATURÉJA. \* *Tournef. Savory.*

CAL. *Perianth* one-leaved, tubular, striated, erect, permanent: the mouth five-tooth'd, subequal, erect.

COR. one-petal'd, grinning. *Tube* cylindric, shorter than the calyx. *Throat* simple. *Upper lip* erect, obtuse, acutely end-nick'd, the length of the under lip. *Under lip* three-parted, expanding: the divisions obtuse, equal, the middle one rather larger.

STAM. *Filaments* four, bristly, distant, scarcely the length of the upper lip, of which the two inferior ones are rather shorter. *Anthers* converging.

PIST. *Germ* four-cleft. *Style* bristly, the length of the corol. *Stigmas* two, bristly.

PER. none. *Calyx* converging, cherishing the seeds in the bottom.

SEEDS four, roundish.

708. THÝMBRA. \* *Mountain Hyssop.*

CAL. *Perianth* one-leaved, subcylindric, keel'd on the sides, two-lip'd in the mouth: the *upper lip* broader, half-threecleft, equal, converging: the *under lip* narrower, two-parted.

COR. grinning: *Tube* subcylindric. *Upper lip* flat, straight, half-twocleft, obtuse: *Under lip* three-cleft, subequal, flat.

STAM. *Filaments* four, thread-form, approximated by pairs: the two inferior of which are shorter. *Anthers* two-lobed with lobes remote, under the upper lip of the corol.

PIST. *Germ* four-cleft. *Style* thread-form, half-twocleft. *Stigmas* two, acute.

PER. none. *Calyx* unchanged.

SEEDS four.

709. HYSSÓPUS. \* *Tournef.* 95. *Hyssop.*

CAL. *Perianth* one-leaved, cylindric, oblong, striated, acutely five-toothed, permanent.

COR. one-petal'd, grinning. *Tube* cylindric, slender, the length of the calyx. *Throat* inclining. *Upper lip* straight, flat, short, roundish, end-nick'd: *Under lip* three-cleft: the lateral divisions shorter, obtuse: the intermediate one notch'd, inverse-hearted, acute, with distant lobes.

STAM. *Filaments* four, erect, longer than the corol, distant, of which the two superior are shorter; but the two longer are nearer the under lip. *Anthers* simple.

PIST. *Germ* four-parted. *Style* thread-form, under the upper lip, and the length of it. *Stigma* two-cleft.

PER. none. *Calyx* containing the seeds in its bosom.

SEEDS four, rather egg'd.

710. NÉPETA. \* *Cataria Tournef.* 95. *Cat-mint.*  
*Nep.*

CAL. *Perianth* one-leaved, tubular, cylindric: the mouth 5-tooth'd, acute, erect: the superior toothlets longer; the inferior ones more expanded.

COR. one-petal'd, grinning. *Tube* cylindric, incurved. *Border* gaping. *Throat* expanded, hearted, terminated by two reflected obtuse very short divisions. *Upper lip* erect, roundish, end-nick'd: *Under lip* roundish, concave, larger, intire, notchletted.

STAM. *Filaments* four, awl'd, placed under the upper lip, approximated, of which two are shorter. *Anthers* incumbent.

PIST. *Germ* four-cleft. *Style* thread-form, the length and situation of the stamens. *Stigma* two-cleft, acute.

PER. none. *Calyx* straight, containing the seeds in its bosom.

SEEDS four, rather egg'd.

OBS. If you number with the under lip the divisions of the throat, the under lip will be three-cleft.

711. LAVANDULA. \* Tournef. 93. Stoechas  
Tournef. 95. Lavender.

- CAL. *Perianth* one-leaved, egg'd: obscurely toothed in the mouth, short, permanent, supported by a bracte.
- COR. one-petal'd, grinning, resupine. *Tube* cylindric, longer than the calyx. *Border* expanding. *One lip* looking upwards, larger, two-cleft, expanding. *The other lip* looking downwards, three-cleft: all the *divisions* roundish, subequal.
- STAM. *Filaments* four, short, within the tube of the corol, deflected, of which two are shorter. *Anthers* small.
- PIST. *Germ* four-parted. *Style* threadform, the length of the tube. *Stigma* two-lobed, obtuse, converging.
- PER. none. *Calyx* converging in the mouth, cherishing the seeds.
- SEEDS four, inverse-egg'd.
- OBS. *Of Lavandula T.* The flowers are digested into a simple spike.  
*Stoechas T.* The flowers are collected into a spike, arranged in various series, adorned with hair.

712. SIDERITIS. \* Tournef. 90. Iron-wort.

- CAL. *Perianth* one-leaved, tubular, oblong, about half-fivecleft: the *divisions* acute, subequal.
- COR. one-petal'd, subequal. *Tube* cylindric, oblong. *Throat* oblong, columnarish. *Upper lip* erect, two-cleft, narrow: *Under lip* three-cleft: the *lateral divisions* acuter, rather less than the under lip: the *middle one* roundish, notch'd.
- STAM. *Filaments* four, within the tube of the corol, shorter than the throat, of which two are less. *Anthers* roundish: two twin.
- PIST. *Germ* four-cleft. *Style* thread-form, rather longer than the stamens. *Stigmas* two, of which the superior is cylindric, concave, lop'd; the inferior one membranous, shorter, sheathing the superior.
- PER. none. *Calyx* cherishing the seeds in its bosom.
- SEEDS four.

713. MÉN-

713. MENTHA. \* *Tournef. 89. Mint.*

CAL. *Perianth* one-leaved, tubular, erect, five-tooth'd, equal, permanent.

COR. one-petal'd. *Petal* erect, tubular, rather longer than the calyx, *Border* four-parted, subequal: the superior *division* broader, end-nick'd.

STAM. *Filaments* four, awl'd, erect, distant, of which the *two* nearest are longer. *Anthers* roundish.

PIST *Germ* four-cleft. *Style* thread-form, erect, longer than the corol. *Stigma* two-cleft, expanding.

PER. none. *Calyx* erect, cherishing the seeds in its bosom.

SEEDS four, small.

## 1236. PERILLA.

CAL. *Perianth* one-leaved, erect, half-fivecleft: (the *divisions* equal: the highest very short), permanent.

COR. one-petal'd, irregular, four-cleft: the superior *division* end-nick'd; the lateral ones expanded; the lowest longer, obtuse.

STAM. *Filaments* four, simple, distant, shorter than the corol. *Anthers* two-cleft.

PIST. *Germ*s four. *Styles* two, thread-form, connected, the length of the stamens. *Stigmas* simple.

PER. *Calyx* unchanged.

SEEDS four.

714. GLECOMA. \* *Ground-ivy. Gill.*

CAL. *Perianth* one-leaved, tubular, cylindric, striated, very small, permanent: the *mouth* five-cleft, pointed, unequal.

COR. one-petal'd, grinning. *Tube* slender, compress'd. *Upper lip* erect, obtuse, half-twocleft. *Under lip* expanding, larger, obtuse, three-cleft: the *intermediate division* larger, end-nick'd.

STAM. *Filaments* four, under the upper lip, of which *two* are shorter. Each pair of *Anthers* converging in the form of a cross.

PIST. *Germ* four-cleft. *Style* thread-form, inclining under the upper lip. *Stigma* two-cleft, acute.

PER. none. *Calyx* cherishing the seeds in its bosom.

SEEDS four, egg'd.

716. LÁMIUM. *Tournef.* 35. *Orvala gen. pl. ed.*  
*VI. n. 715. Papia Mich. 17. Dead-*  
*nettle. Archangel.*

- CAL. *Perianth* one-leaved, tubular, more expanding upwards, five-tooth'd, awn'd, subequal, permanent.
- COR. one-petal'd, grinning. *Tube* cylindric, very short. *Border* gaping. *Throat* inflated, compress'd, gibbous, mark'd on each side the margin with a reflected toothlet. *Upper lip* vaulted, roundish, obtuse, intire. *Under lip* shorter, inverse-hearted, end-nick'd, reflected.
- STAM. *Filaments* four, awl'd, concealed under the upper lip, two of which are longer. *Anthers* oblong, shaggy.
- PIST. *Germ* four-cleft. *Style* thread-form, the length and situation of the stamens. *Stigma* two-cleft, acute.
- PER. none. *Calyx* open, bearing the seeds flat above in its bosom.
- SEEDS four, short, three-sided, convex on one side, lop'd at both ends.

717. GALEÓPSIS. \* *Tetrahit Dill. gen. 3. 4.*  
*Galeobdolon Dill. gen. 4.*  
*Hedge-nettle.*

- CAL. *Perianth* one-leaved, tubular, five-tooth'd, acute-awn'd, ending in awns the length of the tube itself, permanent.
- COR. one-petal'd, grinning. *Tube* short. *Border* gaping. *Throat* rather broader than the tube, the length of the calyx, putting forth above the base of the inferior lip on each side a toothlet pointed, concave beneath. *Upper lip* roundish, concave, saw'd at top. *Under lip* three-cleft: the lateral divisions roundish: the middle one larger, end-nick'd, notch'd.
- STAM. *Filaments* four, awl'd, conceal'd under the upper lip, of which two are shorter. *Anthers* roundish, two-cleft.
- PIST. *Germ* four-cleft. *Style* thread-form, the length and situation of the stamens. *Stigma* two-cleft, acute.
- PER. none. *Calyx* rigid, straight, containing the seeds in the bottom.
- SEEDS four, three-sided, lop'd.
- OBS. G. *Ladanum* has the upper lip scarcely notched with a subreflected top.
- G. *Galeobdolon* has the lip of the corol equal, destitute of teeth. R.

718. BETONICA. *Tournef.* 96. *Betony.*

CAL. *Perianth* one-leaved, tubular, cylindric, five-tooth'd, awn'd, permanent.

COR. one-petal'd, grinning. *Tube* incurved, cylindric. *Upper lip* roundish, intire, flat, erect. *Under lip* three-cleft: the middle division broader, roundish, end-nick'd.

STAM. *Filaments* four, awl'd, the length of the throat, of which two are shorter, inclining to the upper lip. *Anthers* roundish.

PIST. *Germ* four-parted. *Style* the form, situation and size of the stamens. *Stigma* two-cleft.

PER. none. *Calyx* cherishing the seeds in its bosom.

SEEDS four, egg'd.

719. STACHYS. *Tournef.* 86. *Galeopsis Tournef.* 86, *Base Horehound.*

CAL. *Perianth* one-leaved, tubular, angular, half-fivecleft, pointed, permanent: (the *toothlets* pointed, awl'd), subunequal.

COR. one-petal'd, grinning. *Tube* very short. *Throat* oblong, gibbous downwards to the base. *Upper lip* erect, nearly egg'd, vaulted, often end-nick'd. *Under lip* larger, reflected on the sides, three-cleft: the intermediate division very large, end-nick'd, replaited.

STAM. *Filaments* four, of which two are shorter, awl'd, deflowered, recurvate to the sides of the throat. *Anthers* simple.

PIST. *Germ* four-parted. *Style* thread-form, the situation and length of the stamens. *Stigma* two-cleft, acute.

PER. none. *Calyx* scarcely changed.

SEEDS four, egg'd, angular.

OBS. *Galeopsis* T. *upper lip* vaulted.

*Stachys* T. *upper lip* erect.

*S. hirta* (shaggy) the upper lip of the corol divaricated.

*S. arvensis* (field) the upper lip of the corol most intire.

720. BALLÓTA. \* *Ballote Tournef.* 85. *Black-Horehound.*

CAL. *Perianth* one-leaved, tubular, salver-form, five-corner'd, oblong, ten-ftriated, erect, permanent, equal: the *mouth* acute, expanded, plaited, five-tooth'd.

*Involucre* beneath the *Verticils* with linear leaflets.

COR. one-petal'd, grinning. *Tube* cylindric, the length of the calyx. *Upper lip* erect, egg'd, intire, notch'd, concave. *Under lip* three-cleft, obtuse: the *intermediate division* larger, end-nick'd.

STAM. *Filaments* four, of which two are shorter, awl'd, inclining to the superior lip, and shorter than it. *Anthers* oblong, lateral.

PIST. *Germ* four-cleft. *Style* thread-form, the situation and form of the stamens. *Stigma* slender, two-cleft.

PER. none. *Calyx* unchanged, cherishing the seeds in its bosom.

SEEDS four, egg'd.

OBS. *It has the Involucre of Clinopodium; the Calyx of Marrubium; the Corol of Stachys; but approaches nearest to Marrubium.*

*B. disticha* (two-rank'd) has its *perianth* obscurely ten-cornered.  
R.

721. MARRÚBIUM. \* *Tournef.* 91. *Pseudo-dictamnus Tournef.* 89. *Horehound.*

CAL. *Perianth* one-leaved, salver-form, rigid, ten-ftriated: the *mouth* equal, expanded, often ten-tooth'd: the alternate *toothlets* less.

COR. one-petal'd, grinning. *Tube* cylindric. *Border* gaping with a long tubular throat. *Upper lip* erect, linear, two-cleft, acute. *Under lip* reflected, broader, half-threecleft: the *middle division* broader, end-nick'd: the *lateral ones* acute.

STAM. *Filaments* four, shorter than the corol, concealed under the upper lip, of which two are longer. *Anthers* simple.

PIST. *Germ* four-cleft. *Style* thread-form, the length and situation of the stamens. *Stigma* two-cleft.

PER. none. *Calyx* contracted in the neck, expanded in the mouth, including the seeds.

SEEDS four, oblongish.

Obs. *Marrubium T.* has the upper lip of the corol erect.

*Pseudodictamnus T.* has the upper lip of the corol vaulted.

Some species have five calyx-toothlets.

*M. crispum* (curled) has the upper lip intire.

*M. hispanicum* (Spanish) has the upper lip 3-or 4-cleft.

722. LEONURUS. \* *Cardiaca Tournef.* 37. *Lion's-tail. Mother-wort.*

CAL. *Perianth* one-leaved, tubular, cylinder-angled, five-corner'd, five-tooth'd, permanent.

COR. one-petal'd, grinning. *Tube* narrow. *Border* gaping. *Throat* long. *Upper lip* longer, semicylindric, concave, gibbous, round-obtuse at the top, intire, villous. *Under lip* reflected, three-parted: the *divisions* lanced, subequal.

STAM. *Filaments* four, covered under the upper lip, of which *two* are shorter. *Anthers* oblong, compressed, two-cleft in the middle, incumbent, springled with elevated, globular, glossy, solid, very small points.

PIST. *Germ*s four. *Style* thread-form, the length and situation of the *stamens*. *Stigma* two-cleft, acute.

PER. none. *Calyx* unchanged, containing seeds shorter than itself.

SEEDS four oblong, convex on one side, angular on the other.

OBS. *The lips of the corol differ in different species.* R.

723. PHLÓMIS. \* *Tournef.* 82. *Jerusalem Sage.*

CAL. *Perianth* one-leaved, tubular, oblong, five-angled, tooth'd, permanent: the involucre beneath the *Verticil*.

COR. one-petal'd, grinning. *Tube* oblong. *Upper lip* egg'd, vaulted, incumbent, compressed, villous, obscurely two-cleft. *Under lip* three-cleft: the *middle division* larger, two-lobed, obtuse: the *lateral ones* small, acuter.

STAM. *Filaments* four, concealed under the upper lip, of which *two* are longer. *Anthers* oblong.

PIST. *Germ* four-parted. *Style* the length and situation of the *stamens*. *Stigma* two-cleft, acute: the inferior part longer.

PER. none. *Calyx* containing the seeds in its bosom.

SEEDS four, oblong, three-sided.

OBS. *It differs from Leonurus by the want of points on the Anthers.*

*The form of the Calyx and lips of the Corol is not the same in all.*

R.

724. MOLUCCÉLLA. \* *Molucca Tournef.* 88.  
*Molucca Balm.*

- CAL. *Perianth* one-leaved, very large, top-shape, gradually ending in a most ample border, bell'd, tooth-thorned, (of which the superior tooth is more remote), incurved, permanent.
- COR. one-petal'd, grinning, less than the calyx. *Tube* and *throat* short. *Upper lip* erect, concave, intire: *Under lip* three-cleft: the *middle division* more produced, end-nick'd.
- STAM. *Filaments* four, under the upper lip: of which *two* are shorter. *Antbers* simple.
- PIST. *Germ* four-parted. *Style* the size and situation of the stamens. *Stigma* two-cleft.
- PER. none. *Fruit* top-shape, lop'd, in the bottom of the open calyx.
- SEEDS four, convex on one side, angular on the other, broader upwards, lop'd.
- OBS. Of *M. spinosa* (thorny) the *Calyx* has seven long thorns.  
 Of *M. levis* (polish'd) the *Calyx* has five small thorns.  
 Of *M. frutescens* (shrubby) the *Calyx* has twelve expanded thorns.  
 The *Calyx* in some is longer than the *Corol*, in others shorter. R.

725. CLINOPÓDIUM. \* *Tournef.* 92. *Field Basil.*

- CAL. *Involucre* many-bristled, the length of the perianth, beneath the verticil.  
*Perianth* one-leaved, cylindric, very slightly incurved, with a two-lip'd mouth. *Upper lip* broader, three-cleft, acute, reflected: *Under lip* two-parted, slender, inflected.
- COR. one-petal'd, grinning. *Tube* short, gradually enlarged to the throat. *Upper lip* erect, concave, obtuse, end-nick'd. *Under lip* three-cleft, obtuse; the *middle division* broader, end-nick'd.
- STAM. *Filaments* four, under the upper lip, of which *two* are shorter. *Antbers* roundish.
- PIST. *Germ* four-parted. *Style* thread-form, the situation and length of the stamens. *Stigma* simple, acute, compressed.
- PER. none. *Calyx* contracted in the neck, gibbous in the belly, containing the seeds.
- SEEDS four, egg'd.

726. *ORIGANUM*. *Tournef.* 64. *Wild Marjoram*.

CAL. *Involucre* spiked, compounded with imbricated, egg'd, coloured bractes.

*Perianth* unequal, various.

COR. one-petal'd, grinning. *Tube* cylindric, compress'd. *Upper lip* erect, flat, obtuse, end-nick'd. *Under lip* three-cleft: the divisions subequal.

STAM. *Filaments* four, thread-form, the length of the corol, of which two are longer. *Anthers* simple.

PIST. *Germ* four-cleft. *Style* thread-form, inclining to the upper lip of the corol. *Stigma* very slightly two-cleft.

PER. none. *Calyx* converging, cherishing the seeds in its bosom.

SEEDS four, egg'd.

OBS. *The Involucre of the calyx constitutes the essence of the character in this genus.*

*Perianth* in some is nearly equal, five-tooth'd; in others two-lip'd: the upper lip large, intire; the under one scarcely any; in some two-leaved.

*Origanum* T. *The flowers* are solitary arising from proper scalelets.

*Majorana* T. *The flowers* proceed from an imbricated four-corner'd head.

*Dictamnus* Raj. Boerb. *The flowers* proceed from a loose imbricated head.

727. *THYMUS*. \* *Tournef.* 93. *Acynos* *Dill.* gen. 4. *Thyme*.

CAL. *Perianth* one-leaved, tubular, half-two-cleft into two lips, permanent, the throat closed with hairs: *Upper lip* broader, flat, erect, three-tooth'd. *Under lip* two-bristled, of equal length.

COR. one-petal'd, grinning. *Tube* the length of the calyx. *Throat* small. *Upper lip* shorter, flat, erect, end-nick'd, obtuse. *Under lip* longer, expanding, broader, three-cleft, obtuse; the middle division broader.

STAM. *Filaments* four, incurved, of which two are longer. *Anthers* small.

PIST. *Germ* four-parted. *Style* thread-form. *Stigma* two-cleft, acute.

PER. none. *Calyx* contracted in the neck, cherishing the seeds in its bosom.

SEEDS four, small, roundish.

OBS. *Thymus* T. *the stamens* are very short.

*Serphyllum* T. *differs from Thyme* in the woody, less, hard, humbler stems.

*Acinos* Riv. *Dill.* *the middle division of the under lip of the corol* is end-nick'd.

*Mastichina* Boerb. *the teeth of the calyx* are extended into very long and hairy bristles.

728. MELISSA. \* *Tournef.* 91. Calamintha  
*Tournef.* 92. Balm.

CAL. *Perianth* one-leaved, nearly bell'd, dry-parch'd, rather expanding, angular, striated, permanent, with a two-lip'd mouth. *Upper lip* three-tooth'd, reflex-expanding, flat. *Under lip* shorter, acutish, two-parted.

COR. one-petal'd, grinning. *Tube* cylindric. *Throat* gaping. *Upper lip* shorter, erect, vaulted, roundish, two-cleft, *Under lip* three-cleft: the *middle division* larger, hearted.

STAM. *Filaments* four, awl'd, of which *two* are the length of the corol, *two* are shorter by half. *Anthers* small, converging by pairs.

PIST. *Germ* four-cleft. *Style* thread-form, the length of the corol, inclining with the stamens under the upper lip of the corol. *Stigma* slender, two-cleft, reflected.

PER. none. *Calyx* larger, unchanged, cherishing the seeds in its bosom.  
SEEDS four, egg'd.

729. DRACOCEPHALUM. \* *Tournef.* 83. Hire  
*A. G.* 1712. 11. Moldavica *Tournef.* 85. Dragon's-head.

CAL. *Perianth* one-leaved, tubular, permanent, very short.

COR. one-petal'd, grinning. *Tube* the length of the calyx. *Throat* very large, oblong, inflated, gaping, rather compress'd on the back. *Upper lip* straight, vaulted, complicated, obtuse. *Under lip* three-cleft: the *lateral divisions* erect, as the divisions of the throat; the *intermediate one* depending, small, prominent before at the base, roundish, end-nick'd.

STAM. *Filaments* four, awl'd, concealed under the upper lip of the corol, of which *two* are rather shorter. *Anthers* nearly hearted.

PIST. *Germ* four-parted. *Style* thread-form, the situation of the stamens. *Stigma* two-cleft, acute, slender, reflected.

PER. none. *Calyx* cherishing the seeds in its bottom.

SEEDS four, egg-oblong, three-sided.

OBS. *Dracocephalum T.* calyx tubular, inflected, five-tooth'd, equal.

*Moldavica T.* calyx bellied, contracted in the neck, two-lip'd in the mouth; the superior lip broader, three-cleft; the inferior one less, acuter, two-parted.

*Some species of the Moldavica T.* furnish'd with a calyx as in the *Dracocephalum T.* evince that the calyx in this genus avails nothing.

730. HORMINUM. † *Pyrenean Clary.*

CAL. *Perianth* one-leaved, bell'd, straight, five-angled with lines, unequal, half-two-cleft. *Upper lip* broader, egg'd, more expanding, three-tooth'd, with pointed teeth. *Under lip* lanced, straight, two-parted: the segments crosswise incumbent, pointed.

COR. one-petal'd, grinning. *Tube* the length of the calyx. *Upper lip* erect, concave, two-cleft, shorter. *Under lip* three-cleft: with roundish segments.

STAM. *Filaments* four, awl'd, ascending, inflected, not longer than the corol, of which the *two* opposite are rather shorter. *Anthers* simple.

PIST. *Germ* four-cleft. *Style* thread-form, the situation and length of the stamens. *Stigma* two-cleft, acute.

PER. none. *Calyx* unchanged.

SEEDS four, roundish, obtusely three-sided.

731. MELLITTIS. \* *Balm-leaved Archangel.*

CAL. *Perianth* one-leaved, bell'd, columnar, straight, with a two-lip'd mouth. *Upper lip* higher, end-nick'd, acute. *Under lip* shorter, two-cleft, acute, with gaping divisions.

COR. one-petal'd, grinning. *Tube* much narrower than the calyx. *Throat* scarcely thicker than the tube. *Upper lip* erect, roundish, intire. *Under lip* expanding, three-cleft, obtuse: the *intermediate division* larger, flat, intire.

STAM. *Filaments* four, awl'd, under the upper lip, of which the *intermediate* are shorter than the exterior ones. *Anthers* converging by pairs to a cross, two-cleft, obtuse.

PIST. *Germ* obtuse, four-cleft, villous. *Style* thread-form, the length and situation of the stamens. *Stigma* two-cleft, acute.

PER. none. *Calyx* unchanged, containing the seeds in its bottom.

SEEDS four.

OBS. *The under lip of the calyx is sometimes notch'd.*

732. OCYUM. \* *Tournef.* 96. *Basil.*

CAL. *Perianth* one-leaved, two-lip'd, very short, permanent. *Upper lip* flat, orbicular, broader, ascending. *Under lip* four-cleft, acute, converging.

COR. one-petal'd, grinning, resupine. *Tube* very short, expanding. *One lip* looking upwards broader, half-fourcleft, obtuse, equal. *The other lip* looking downwards narrower, intire, saw'd, longer.

STAM. *Filaments* four, declining, of which *two* are rather longer, and two putting forth at the base a reflected process. *Anthers* half-mooned.

PIST. *Germ* four-parted. *Style* thread-form, the situation and length of the stamens. *Stigma* two-cleft.

PER. none. *Calyx* closed, cherishing the seeds.

SEEDS four, egg'd.

OBS. *The upper lip of the petal looks downwards, but the under one upwards, according to the flexure of the stamens. The essential character consists in the reflected process of the two filaments.*

733. TRICHOSTÉMA. † *Gronov.* *Hair-stamen.*

CAL. *Perianth* one-leaved, two-lip'd. *Upper lip* twice as large, three-cleft, equal, acute. *Under lip* two-parted, acute.

COR. one-petal'd, grinning. *Tube* very short. *Upper lip* compress'd, sickled. *Under lip* three-parted: the intermediate division very small, oblong.

STAM. *Filaments* four, capillary, longest of all, incurved, of which *two* are rather shorter. *Anthers* simple,

PIST. *Germ* four-cleft. *Style* capillary, the length and form of the filaments. *Stigma* two-cleft.

PER. none. *Calyx* larger, reflected, as if the superior lip evaded the inferior, bellied, converging.

SEEDS four, roundish.

734. SCUTELLARIA. \* *Cassida Tournef.* 84.  
*Skull-cap.*

CAL. *Perianth* one-leaved, very short, tubular: the *mouth* nearly intire: closing after the *florescence*, lid-cover'd.

COR. one-petal'd, grinning. *Tube* very short, bent backward. *Throat* long, compressed. *Upper lip* concave, three-cleft: the *middle division* concave, end-nick'd: the *lateral ones* flat, acutish, beneath the *intermediate ones*. *Under lip* broader, end-nick'd.

STAM. *Filaments* four, concealed under the upper lip, of which *two* are longer. *Anthers* small.

PIST *Germ* four-parted. *Style* thread-form, the situation and length of the *stamens*. *Stigma* simple, incurv'd, pointed.

PER. none. *Calyx* closed with a lid, helmet-form, supplying the place of a capsule, three-sided, gaping on the inferior margin.

SEEDS four, roundish.

OBS. *It is sufficiently distinguished from all others by its fruit alone; for the calyx represents a helmet with its crest and lid.*

735. PRUNELLA. \* *Tournef.* 84. *Self-beal.*

CAL. *Perianth* one-leaved, two-lip'd, shorter in the throat, permanent. *Upper lip* flat, broader, lop'd, very slightly three-tooth'd. *Under lip* erect, narrower, acute, half-twocleft.

COR. one-petal'd, grinning. *Tube* short, cylindric. *Throat* oblong. *Upper lip* concave, intire, nodding. *Under lip* reflected, three-cleft, obtuse: the *middle division* broader, end-nick'd, saw'd.

STAM. *Filaments* awl'd, two-fork'd at the top, of which *two* are rather longer. *Anthers* simple, inserted into the *filaments* beneath the tops, as it were another branch.

PIST. *Germ* four-parted. *Style* thread-form, inclining with the *stamens* to the superior lip. *Stigma* two-cleft.

PER. none. *Calyx* closed, cherishing the seeds.

SEEDS four, rather egg'd.

OBS. *The essential character consists in the two-fork'd filaments, as that of Crambe.*

736. CLE-

## 736. CLEONIA.

- CAL.** *Perianth* one-leaved, tubular, angular, two-lip'd. *Upper lip* flattish, broad, three-tooth'd. *Under lip* two-parted, short.
- COR.** one-petal'd, grinning. *Upper lip* straight, two-cleft, keel'd. *Under lip* three-cleft; the *intermediate part* two-lobed; the lateral ones expanded.
- STAM.** *Filaments* four, two-fork'd at top; the two inferior ones longer. *Anthers* sitting on the exterior top of the filaments, cross'd by pairs.
- PIST.** *Germ* four-parted. *Style* thread-form, the length of the stamens. *Stigmas* four, bristly, equal.
- PER.** none. *Calyx* closed with hairs.
- SEEDS** four, columnarish, smooth.
- OBS.** *It differs from all of this order in its four stigmas.*

737. PRASIUM. \* *Shrubby Hedge-nettle.*

- CAL.** *Perianth* one-leaved, bell-topshape, erect, two-lip'd. *Upper lip* broader, half-three-cleft, acute. *Under lip* rather less, two-parted.
- COR.** one-petal'd, grinning. *Upper lip* erect, egg'd, obscurely end-nick'd, concave. *Under lip* broader, three-cleft, reflected: the middle division larger.
- STAM.** *Filaments* four, awl'd, appress'd to the upper lip, expanding, and shorter than it; of these two are shorter than the rest. *Anthers* oblong, lateral.
- PIST.** *Germ* four-cleft. *Style* thread-form, the length and situation of the stamens. *Stigma* two-cleft, acute: one division shorter.
- PER.** *Berries* four, in the bottom of the calyx, roundish, one-cell'd.
- SEEDS** solitary, roundish.
- OBS.** *The seeds themselves covered with a berried skin, assume the nature of a berry. Hence the plant is four-seed-naked, berry-bearing; by which mark it is distinguished from all others of this order.*

738. PHRYMA. *Leptostachia Mitch II.*

CAL. *Perianth* one-leaved, cylindric, gibbous above, the base striated, two-lip'd in the mouth. *Upper lip* narrow, longer: with three awl'd, converging teeth. *Under lip* obtuse, two-cleft.

COR. one-petal'd, grinning. *Tube* the length of the calyx. *Upper lip* shorter, nearly egg'd, end-nick'd, straight: *Under lip* larger, expanding, three-cleft; the intermediate part more produced.

STAM. *Filaments* four, two together, the superior shorter. *Anthers* roundish, converging, in the throat of the corol.

PIST. *Germ* oblong. *Style* thread-form, the length of the stamens. *Stigma* obtuse.

PER. none. *Calyx* unchanged, furrow'd, converging.

SEED one, oblong, columnarish, furrow'd on one side.

## II. SEED-COVERED.

(*Angiospermia.*)

1403. CASTILLEIA. *Mutis. S.*

CAL. *Perianth* one-leaved, tubular, (the side of the superior part contracted), longitudinally gaping, coloured.

COR. one-petal'd, grinning. *Upper lip* longer, channel'd, rather leafy, supported by the calyx. *Under lip* with two, tubular, three-cleft, very minute glands.

STAM. *Filaments* four, two-power'd, the length of the corol. *Anthers* two on each filament: one higher.

PIST. *Germ* above, oblong. *Style* thread-form, equalling the corol. *Stigma* obtuse.

PER. *Capsule* egg-oblong, compress'd, two-cell'd. The partition opposite.

SEEDS most numerous, very small.

## 739. BARTSIA. \*

- CAL. *Perianth* one-leaved, tubular, permanent: the *mouth* obtuse, two-lobed, the lobes end-nick'd, with coloured tops.
- COR. one-petal'd, grinning. *Upper lip* erect, slender, intire, longer. *Under lip* reflected, three-cleft, obtuse, very small.
- STAM. *Filaments* four, bristly, the length of the upper lip, two of which are rather shorter. *Anthers* oblong, approximated, under the top of the upper lip.
- PIST. *Germ* egg'd. *Style* thread-form, longer than the *stamens*. *Stigma* obtuse, nodding.
- PER. *Capsule* egg'd, compress'd, pointed, two-cell'd, two-valved, with an opposite partition.
- SEEDS numerous, angular, small.
- OBS. *This is as it were a middle genus between Rhinanthus, Euphrasia, and Pedicularis, distinguished by its coloured calyx.*

740. RHINANTHUS. \* (*Nose-flower*) *Pedicularis*  
*species Tournef.* 77. B.F.M.  
 N.O.P. *Elephas Tournef.* 482  
*Elephant's Head.*

- CAL. *Perianth* one-leaved, roundish, inflated, compress'd, four-cleft, permanent.
- COR. one-petal'd, grinning. *Tube* subcylindric, the length of the calyx. *Border* gaping, compress'd at the base. *Upper lip* helmetted, compress'd, end-nick'd, narrower. *Under lip* expanded, flat, half-three-cleft, obtuse: the *middle division* broader.
- STAM. *Filaments* four, the length of the upper lip, under which it is concealed, of which two are shorter. *Anthers* incumbent, two-cleft at one end, shaggy.
- PIST. *Germ* egg'd, compress'd. *Style* thread-form, the situation of the *stamens*, and longer than them. *Stigma* obtuse, inflected.
- PER. *Capsule* obtuse, erect, compress'd, two-cell'd, two-valved, with the partition opposite the valves, gaping on the margins.
- SEEDS numerous, compress'd.
- OBS. *Elephas T. The margin of the capsule is obtuse; the seeds simple; the calyx unequal, two-lip'd.*  
*Christa Galli Riv. The margin of the capsule is increased; the seeds cloathed with a loose membrane; the calyx equal, four-cleft.*

741. EUPHRASIA. \* *Tournef.* 78. *Odonitis*  
*Dill. gen. 6. Eye-bright.*

CAL. *Perianth* one-leaved, cylindric, four-cleft, unequal, permanent.

COR. one-petal'd, grinning. *Tube* the length of the calyx. *Upper lip* concave, end-nick'd. *Under lip* expanding, three-parted: the *divisions* equal, obtuse.

STAM. *Filaments* four, thread-form, inclined under the upper lip. *Anthers* two-lobed: of which the inferior ones in the inferior lobe are pointed to a thornlet.

PIST. *Germ* egg'd. *Style* thread-form, with the situation and form of the stamens. *Stigma* obtuse, intire.

PER. *Capsule* egg-oblong, compress'd, two-cell'd.

SEEDS numerous, very small, roundish.

742. MELAMPYRUM. \* *Tournef.* 78. *Black-grain.*  
*Cow-wheat.*

CAL. *Perianth* one-leaved, tubular, four-cleft: (the *divisions* slender), permanent.

COR. one-petal'd, grinning. *Tube* oblong, recurved. *Border* compress'd. *Upper lip* helmetted, compress'd, end-nick'd, the lateral marginlets reflected. *Under lip* flat, erect, the length of the upper one, half-three-cleft, with equal *divisions*, obtuse, marked in the middle with two *eminencies*.

STAM. *Filaments* four, awl'd, curved, concealed, of which *two* are shorter. *Anthers* oblong.

PIST. *Germ* pointed. *Style* simple, the situation and length of the stamens, *Stigma* obtuse.

PER. *Capsule* oblong, oblique, pointed, compress'd, (the *superior margin* convex, the *inferior one* straight), two-cell'd, two-valved, (the partition opposite to the valves), gaping in the superior suture.

SEEDS double, egg'd, gibbous, increased at the base.

743. LATH-

743. LATHRÆA. \* *Clandestina Tournef.* 424.

CAL. *Perianth* one-leaved, bell'd, straight: the *mouth* deeply four-cleft.

COR. one-petal'd, grinning. *Tube* longer than the calyx. *Border* grinning, bellied. *Upper lip* concave, helmeted, broad with a narrow, hook'd top. *Under lip* less reflected, obtuse, three-cleft.

*Nectary.* A Gland end-nick'd, depress'd on both sides, very short, inserted into the receptacle of the flower at one angle of the germ.

STAM. *Filaments* four, awl'd, the length of the corol, concealed under the upper lip. *Anthers* obtuse, depress'd, converging.

PIST. *Germ* globe-compress'd. *Style* thread-form, the length and situation of the stamens. *Stigma* lop'd, nodding.

PER. *Capsule* roundish, obtuse with a point, one-cell'd, two-valved, elastic, clothed with a very large expanding calyx.

SEEDS few, subglobular.

OBS. *It approaches very nearly to Orobranche, on account of the Gland.*

744. SCHWALBÆA. † *Gronov. virg.* 71.

CAL. *Perianth* one-leaved, tube-bellied, striated, the *mouth* four-cleft, oblique: the *highest division* shortest; the *lateral ones* longer, the *lowest* still longer, broader, end-nick'd.

COR. one-petal'd, grinning. *Tube* the length of the calyx. *Border* erect. *Upper lip* erect, concave, most intire. *Under lip* of the same length, three-cleft, obtuse, with equal divisions.

STAM. *Filaments* four, thread-form, the length of the corol, of which two are rather shorter. *Anthers* incumbent.

PIST. *Germ* roundish. *Style* the situation, form, and length of the stamens. *Stigma* thickish, recurved.

PER. *Capsule* two-cell'd?

SEED one, roundish, small.

## 745. TOZ-

745. TÓZZIA. † *Mich.* 16.

**CAL.** *Perianth* one-leaved, tubular, very short, five-tooth'd, permanent.

**COR.** one-petal'd, grinning. *Tube* cylindric, longer than the calyx. *Border* expanding. *Upper lip* two-cleft. *Under lip* three-cleft: all the *divisions* subequal, rounded.

**STAM.** *Filaments* four, concealed under the upper lip. *Anthers* roundish.

**PIST.** *Germ* egg'd. *Style* thread-form, the situation and length of the stamens. *Stigma* headed.

**PER.** *Capsule* globular, one-cell'd, one-valved.

**SEED** one, egg'd.

746. PEDICULARIS. \* *Tournef.* 77. (*Louse-wort*)  
A.D.E.H.I.K.L. *Rattle.*

**CAL.** *Perianth* one-leaved, roundish, bellied, (the *mouth* five-cleft, equal), permanent.

**COR.** one-petal'd, grinning. *Tube* oblong, gibbous. *Upper lip* helmetted, erect, compress'd, end-nick'd, narrower. *Under lip* expanding, flat, half-three-cleft, obtuse: the *middle division* narrower.

**STAM.** *Filaments* four, the length of the upper lip, under which they are concealed, of which *two* are shorter. *Anthers* incumbent, roundish, compress'd.

**PIST.** *Germ* roundish. *Style* thread-form, the situation of the stamens, but longer. *Stigma* obtuse, inflected.

**PER.** *Capsule* roundish, dagger'd, oblique, two-cell'd, with the partition opposite the valves, gaping at the top.

**SEEDS** numerous, roundish, compress'd, coated. *Receptacles* oblong, petioled.

**OBS.** *In most the Capsule is oblique at the top.*

*Sceptrum Carolinum (Charles sceptre) Rudb. has a regular capsule; and the grin closed.*

*There are species with the mouth of the calyx two-cleft.*

747. GERARDIA. † *Plum.* 12.

CAL. *Perianth* one-leaved, five-cleft, erect, acute, permanent.

COR. one-petal'd, grinning. *Tube* columnar, longer than the calyx:  
*Upper lip* erect, obtuse, flat, broader, end-nick'd: *Under lip*  
 reflected, three-parted: the *lateral divisions* end-nick'd; the  
*middle one* shorter, two-parted.

STAM. *Filaments* four, scarce the length of the tube, of which two  
 are rather shorter. *Anthers* small.

PIST. *Germ* egg'd, small. *Style* simple, short. *Stigma* obtuse.

PER. *Capsule* egg'd, two-cell'd, two-valved, gaping at the base.

SEEDS egg'd, solitary.

748. CHELONE. \* *Dill. gen.* 11. Anonymous  
*Gron. virg.* 71. 72. *Shell-flower.*

CAL. *Perianth* one-leaved, five-parted, very short, permanent: the  
*divisions* erect, egg'd.

COR. one, grinning. *Tube* cylindric, very short. *Throat* inflated,  
 oblong, convex above, flat beneath. *Border* closed, small.  
*Upper lip* obtuse, end-nick'd: *Under lip* nearly equal with  
 the superior, very slightly three-cleft.

STAM. *Filaments* four, concealed under the back of the corol, of  
 which the two lateral ones are rather longer. *Anthers* incum-  
 bent. There is a *Rudiment* of a fifth filament, like a dagger,  
 within the superior pair of stamens.

PIST. *Germ* egg'd. *Style* thread-form, the situation and length of  
 the stamens. *Stigma* obtuse.

PER. *Capsule* egg'd, two-cell'd, longer than the calyx.

SEEDS very numerous, roundish, girt with a membranous margin.

OBS. Ch. penstemon differs in some things; it has ascending stamens the  
 length of the corol, and the fifth or highest stamen is castrated,  
 straight, the length of the corol; bearded above longitudinally,  
 thicker, and the *Anthers* not villous.

## 749. GES-

749. GESNÉRIA. † *Gesnera* Plum. *Jacq. amer.* 179.

CAL. *Perianth* one-leaved, above, five-cleft, acute, permanent.

COR. one-petal'd, incurved and recurved. *Tube* thickish, the neck contracted, and throat funnel-form. *Border* five-cleft, obtuse: the superior *divisions* concave, the three inferior ones flat, expanding.

STAM. *Filaments* four, shorter than the corol. *Anthers* simple.

PIST. *Germ* beneath, depress'd. *Style* simple, the situation and length of the *stamens*. *Stigma* headed.

PER. *Capsule* roundish, and crown'd with a spreading calyx, two-cell'd.

SEEDS most numerous, very small: the *Receptacles* adjoin'd to the partition on all sides.

750. ANTIRRHINUM. \* *Tournef.* 75. *Linaria* *Tournef.* 76. *Afarina* *Tournef.* 76. *Elatine* *Dill,* *gen.* 6. *Snap-dragon, Calve's-nout.*

CAL. *Perianth* fiveparted, permanent: the *divisions* oblong, permanent; the *two inferior ones* more gaping.

COR. one-petal'd, grinning. *Tube* oblong, gibbous. *Border* two-lip'd: *Upper lip* two-cleft, reflected on the sides: *Under lip* three-cleft, obtuse. *Palate* convex, oftner closed by the palate, prominent between the lips, produced from the under lip, beneath the concave throat.

*Nectary* produced downwards at the base of the corol, prominent.

STAM. *Filaments* four, inclosed under the upper lip, nearly the length of the corol, yet *two* are shorter. *Anthers* converging.

PIST. *Germ* roundish. *Style* simple, the length and situation of the *stamens*. *Stigma* obtuse.

PER. *Capsule* roundish obtuse, two-cell'd, of various form and aperture, in various plants.

SEEDS very numerous. *Receptacles* kidney-form, solitary, affixed to the partition.

OBS. The *Nectary* and *Pericarp* in this genus are very different.

In *Linaria* T. the *Nectary* is long, awl'd, the *Capsule* equally gaping.

In *Antirrhinum* T. the *Nectary* is obtuse, scarcely prominent, the *Capsule* gaping obliquely at the top, unequal at the base.

In *Elatine* *Dill.* the *Nectary* is awl'd, the *Capsule* in gaping deposits on each side a fold.

*A. bellidifolium* (daisy-leaved) & *canadense* (canadian) have an open grin, destitute of a palate,

## 751. CYM-

751. CYMBÁRIA. *Amm. Ruth. I. Boat.*

CAL. *Perianth* ten-tooth'd, erect: (with two teeth opposite, stronger, more expanding; the rest erect, linear), permanent.

COR. one-petal'd, grinning. *Tube* oblong, bellied. *Border* two-lip'd: *Upper lip* two-parted, reflected, obtuse: *Under lip* three-cleft, obtuse.

STAM. *Filaments* four, the length of the tube. *Anthers* two-cleft, prominent.

PIST. *Germ* egg'd. *Style* thread-form, the length of the stamens, with an incurved top. *Stigma* obtuse.

PER. *Capsule* egg'd. one-cell'd, two-valved. *Receptacle* quadrangular.

SEEDS very numerous, angular, polished.

OBS. *It is easily distinguished from all by the calyx alone.*

## 1407. THUNBÉRGIA. S.

CAL. *Perianth* double: the exterior one two-leaved, the leaflets egg'd, obtuse, five-nerved, nearly the length of the tube: the interior calyx one-leaved, many-parted: *Divisions* about twelve, awl'd, thrice as short as the exterior perianth.

COR. one-petal'd, bell'd. *Tube* gradually enlarged. *Border* five-cleft. *Divisions* equal, egg'd, most obtuse, twice as short as the tube.

STAM. *Filaments* four, inserted into the tube, two-power'd. *Anthers* egg'd.

PIST. *Germ* above. *Style* thread-form, shorter than the tube. *Stigma* two-lobed.

PER. *Capsule* globular, beaked, two-cell'd, longitudinally gaping.

SEEDS two in each cell, kidney-form, rather wrinkled, convex.

OBS. *In many things it agrees with Barleria.*

## 752. CRA-

## 752. CRANIOLÁRIA. †

CAL. Interior *Perianth* four-leaved: the *leaflets* linear, short, expanded, permanent.

Superior *Perianth* egg'd, inflated, large, dissected longitudinally on one side.

COR. one-petal'd, unequal. *Tube* very long, most narrow. *Border* flat, two-lip'd. *Upper lip* intire, roundish, like the rest of the divisions, but larger. *Under lip* three-cleft: the *divisions* roundish: the *middle one* broader.

STAM. *Filaments* four, the length of the tube of the corol, of which *two* are rather shorter. *Anthers* simple.

PIST. *Germ* egg'd. *Style* thread-form, the length of the tube of the corol. *Stigma* thickish, obtuse.

PER. leathery, egg'd, acute both ways, two-valved.

SEED *Nut* woody, depress'd, pointed at both ends, with an incurved, two-parted point, marked on both sides with three toothletted furrows (the form of the skull of some wild beast), two-cleft on the sides.

OBS. *This genus is too nearly allied to Martynia, but the corol is more equal.*

*The Interior Calyx of C. annua (annual) is two-leaved. R.*

753. MARTYÑIA. \* *Mart. I. 42.*

CAL. *Perianth* five-cleft, withering.

COR. one-petal'd, bell'd. *Tube* expanding, bellied, gibbous beneath at the base, melliferous. *Border* small, five-cleft, obtuse, expanding: the *divisions* subequal: the *lowest one* more erect, concave, notch'd.

STAM. *Filaments* four, thread-form, incurved; a *Rudiment* of a fifth filament between the superior pair of stamens, short, like a stinging. *Anthers* convex-converging.

PIST. *Germ* oblong. *Style* short, simple, the length of the stamens. *Stigma* two-lobed.

PER. *Capsule* woody, oblong, gibbous, five-cell'd, quadrangular, (each side two furrow'd), pointed, recurved at the top, gaping two ways, including the seeds as in a four-cell'd nucleus.

SEEDS many, oblong, berried.

OBS. *M. longiflora (long-flower'd) differs in a five-tooth'd calyx, two stigmas, capsule scarcely beaked, with a thick toothlet on each side at the base. R.*

754. TO-

## 754. TORÉNIA.

- CAL. *Perianth* one-leaved, tubular, angular, permanent, two-cleft :  
*Upper lip* three-piked : *Under lip* narrow, most intire.
- COR. one-petal'd, grinning : *Upper lip* intire : *Under lip* three-cleft ; the intermediate division more produced.
- STAM. *Filaments* four ; the two superior ones simple ; the two inferior two-parted : with an inferior shorter steril branchlet. *Anthers* twin, contiguous by pairs.
- PIST. *Germ* oblong. *Style* thread-form, thicker above. *Stigma* two-cleft, acute.
- PER. *Capsule* oblong, two-cell'd.
- SEEDS very numerous.

755. BESLÉRIA. *Plum.* 5. *Jacq. amer.* 187.

- CAL. *Perianth* one-leaved, five-parted, pointed, erect, loose, with reflected tops.
- COR. one-petal'd, grinning. *Tube* the length of the calyx, columnarish, gibbous on one side at the base and top. *Border* five-cleft : the *divisions* roundish, of which the *lowest* is very large, the *two superior* ones less divided.
- STAM. *Filaments* four, within the tube of the corol, of which *two* are rather shorter. *Anthers* oblong, twin, dependent on both sides.
- PIST. *Germ* globular, sitting on a glandular embracing permanent body, hearted at the gibbosity of the corol. *Style* awl'd, erect. *Stigma* two-cleft, obtuse.
- PER. *Berry* subglobular, one-cell'd.
- SEEDS numerous, round, very small, nestling.

## 756. SCRO-

756. SCROPHULARIA. \* *Tournef. 74. Fig-wort.*

CAL. *Perianth* one-leaved, five-cleft, permanent: the *divisions* shorter than the corol, rounded.

COR. one-petal'd; unequal. *Tube* globular, large, inflated. *Border* five-parted, very small: the two superior *divisions* larger, erect, the two lateral ones expanded, the third lowest, reflected.

STAM. *Filaments* four, linear, declining the length of the corol, of which two are later. *Anthers* twin.

PIST. *Germ* egg'd. *Style* simple, the situation and length of the *stamens*. *Stigma* simple.

PER. *Capsule* roundish, pointed, two-cell'd, two-valved, (with a partition constructed from the inflected margin of the valvelets), gaping at the top.

SEEDS very numerous, small. *Receptacles* one, roundish, insinuating itself into each cell.

OBS. *There is a certain minute division found in the throat of the corol, under the highest division of the border, counterfeiting a small lip, which is not common to all the species.*

*The Corol must be conceived resupine in this genus: the upper lip less recurved: to which the stamens are declined, rounded; lateral ones notch'd, rounded, equal with the highest. Under lip larger, spreading, two-parted: the intermediate one very small forward.*

## 757. CELSIA. \*

CAL. *Perianth* five-parted: the *divisions* lanced, obtuse, the length of the corol, permanent.

COR. one-petal'd, wheel'd. *Tube* shortest of all. *Border* flat, half-five-cleft, unequal: the *divisions* roundish, of which the two superior ones are less: the lowest larger.

STAM. *Filaments* four, capillary, inclining towards the smallest divisions of the corol, of which the two longer are shorter than the corol, woolly without. *Anthers* roundish, small.

PIST. *Germ* roundish. *Style* thread-form, the length of the *stamens*. *Stigma* obtuse.

PER. *Capsule* roundish, compress'd at top, pointed, sitting on the calyx, two-cell'd.

SEEDS very numerous, small, angular. *Receptacles* solitary, hemispheric.

OBS. *It is evident from what has been said, how much it differs from Verbascum.*

1405. HEMIMÉRIS. S.

- CAL. *Perianth* one-leaved, almost five-parted to the base: the *leaflets* lanced, permanent.
- COR. one-petal'd, wheel'd, subunequal: *each division* has in the middle a nectary-bearing pit: *One* larger, inverie-hearted: the *rest* obtuse; the *ultimate ones* less, opposite the larger.
- STAM. *Filaments* two or four, at the base of the larger petal: *two* horizontal; *two* less, inclining. *Anthers* heart-form, conjoined.
- PIST. *Germ* above. *Style* thread-form, placed between the *Anthers*. *Stigma* simple.
- PER. *Capsule* egg'd, two-cell'd: *One Cell* more gibbous.
- SEEDS very numerous, subglobular, diaphanous.
- OBS. *This Genus is very nearly alied to the Antirrhinums, but very different in the form of the corol.*

758. DIGITALIS. \* *Tournef.* 73. *Foxglove.*

- CAL. *Perianth* five-parted: the *divisions* roundish, acute, permanent; the *highest* narrower than the rest.
- COR. one-petal'd, bell'd. *Tube* large, expanding, bellied downwards: the *base* cylindric, contracted. *Border* small, four-cleft: the *superior division* more expanding, end-nick'd: the *lowest* larger.
- STAM. *Filaments* four, awl'd, inserted into the base of the corol, declining, of which *two* are longer. *Anthers* two-parted, pointed at one end.
- PIST. *Germ* pointed, *Style* simple, the situation of the *stamens*. *Stigma* acute.
- PER. *Capsule* egg'd, the length of the calyx, pointed, two-cell'd, two-valved, the valves bursting two ways.
- SEEDS very numerous, small.
- OBS. *There are species in which the divisions of the corol are acute and more evident, and the upper as well as the lower lip is acute and more prominent.*

759. BIGNÓNIA. \* *Tournef.* 72. *Trumpet-flower.*

CAL. *Perianth* one-leaved, erect, cup-form, five-cleft.

COR. one-petal'd, bell'd. *Tube* very small, the length of the calyx. *Throat* very long, bellied, beneath, bell-oblong. *Border* five-parted: the *two superior divisions* reflected: the *inferior ones* expanded.

STAM. *Filaments* four, awl'd, shorter than the corol, of which *two* are shorter than the rest. *Anthers* reflected, oblong, as if doubled.

PIST. *Germ* oblong. *Style* thread-form, with the situation and form of the stamens. *Stigma* headed.

PER. *Silique* two-cell'd, two-valved.

SEEDS very numerous, imbricated, compress'd, membrane-wing'd on both sides.

OBS. *Catalpa* has *two perfect stamens only*, and *three very small rudiments of stamens*, with a *five-leaved calyx*.

The form of the *Silique* in this genus is indeterminate, the *Seeds* are always wing'd, although, some on one part only.

760. GITHARÉXYLUM. B. *Jussieu.* *Jacq.* 117.  
*Fiddle-wood.*

CAL. *Perianth* one-leaved, bell'd, five-tooth'd, acute, permanent.

COR. one-petal'd, wheel-funnel-form. *Tube* twice as long as the perianth, thicker above. *Border* five-parted, two-lip'd: the *divisions* villous above, oblong, lop'd, flat, most expanded.

STAM. *Filaments* four, with the rudiment of a fifth from the middle of the tube, thread-form, of which *two* are rather longer. *Anthers* oblong, twin, erect.

PIST. *Germ* roundish. *Style* thread-form, the length of the stamens. *Stigma* obtuse-headed.

PER. *Berry* roundish, subcompress'd, one-cell'd.

SEEDS two, egg'd, two-cell'd, convex on one side, concave on the other, end-nick'd at top.

761. HALLERIA. \* *African Fly-honeysuckle.*

CAL. *Perianth* one-leaved, three-cleft, flat, expanding, most obtuse, permanent: the *superior division* twice as broad.

COR. one-petal'd, ginning. *Tube* roundish at the base, inflected with a bellied throat. *Border* oblique, erect, four-cleft: the *highest division* rather longer, obtuse, end-nick'd: the *lateral divisions* shorter, broader, more acute: the *lowest one* very short, very slender, most acute.

STAM. *Filaments* four, bristly, straight, inserted into the tube, longer than the corol, of which two are still longer. *Anthers* roundish, twin.

PIST. *Germ* beneath, egg'd, ending in a *Style* longer than the stamens. *Stigma* simple.

PER. *Berry* roundish, two-cell'd.

SEEDS small, flat, roundish, wing'd. *Fabric.*

762. CRESCENTIA. *Cujete Plum.* 16. *Calabash-tree.*

CAL. *Perianth* one-leaved, two-parted, short, deciduous: the *divisions* roundish, concave, obtuse, equal.

COR. one-petal'd, unequal. *Tube* gibbous, curved, wreathed. *Border* erect, five-parted: the *divisions* unequal, tooth-sinuous.

STAM. *Filaments* four, awl'd, the length of the corol, expanded, of which two are rather shorter. *Anthers* incumbent, obtuse, twin.

PIST. *Germ* broad at the foot, egg'd. *Style* thread-form, the length of the corol. *Stigma* headed.

PER. *Berry* oval, hard, one-cell'd.

SEEDS very numerous, rather hearted, nestling, two-cell'd.

763. GMELINA. † *Michelia* *Amm. act. petr.*  
*tom.* 8.

- CAL. *Perianth* one-leaved, very small, subglobular, four-tooth'd, permanent.
- COR. one-petal'd, bell'd, spreading, with a four-cleft border: the *superior division* ampler, vaulted: the *lowest division*, and *lateral ones* obtuse, less, expanding, rounded.
- STAM. *Filaments* four, of which *two* are thicker, *two* incurved, ascending. *Anthers* two thicker, two-parted; two less, simple.
- PIST. *Germ* roundish. *Style* the length of the lesser stamens. *Stigma* simple.
- PER. *Drupe* globular, one-cell'd.
- SEED *Nut* egg'd, polished, two-cell'd.

764. PETRÉA. *Houft.* A. A. *Jacq. amer.* 180.

- CAL. *Perianth* one-leaved, bell'd: *Border* five-parted, expanding, very large, colour'd, permanent: the *divisions* oblong, obtuse, the throat closed with five, double, lop'd scales.
- COR. one-petal'd, wheel'd, unequal, less than the calyx. *Tube* very short. *Border* flat, five-cleft: the *divisions* rounded, subequal, most expanding: the middle one larger, different-colour'd.
- STAM. *Filaments* four, concealed within the tube of the corol, ascending, of which *two* are shorter. *Anthers* oval, erect.
- PIST. *Germ* egg'd. *Style* simple, the length of the stamens. *Stigma* obtuse.
- PER. *Capsule* inverse-egg'd, flat at the top, one-cell'd, with a thin membrane, concealed in the bottom of the calyx.
- SEED one, fleshy.

## 1316. PRÉMNA.

- CAL. *Perianth* one-leaved, bell'd, nearly two-lobed: (the superior *division* end-nick'd), permanent.
- COR. one-petal'd, irregular, tubular: with a four-cleft, obtuse mouth; the two superior *divisions* erect, shorter; the rest expanding.
- STAM. *Filaments* four, erect, middle size: the two inferior ones shorter. *Anthers* roundish.
- PIST. *Germ* roundish. *Style* cylindric, shorter. *Stigma* two-cleft.
- PER. *Berry* subglobular, four-cell'd, (*Drupe Kônig.*)
- SEEDS solitary, bony, rounded on one side, angular on the other.

765. LANTANA. \* *Camara Plum.* 2. *Dill. elth.* 56. 57. *Myrobatindum Vaill. A. G.* 1722. *Spielmannia Medic. in Aët. palat. Vol. 3. phys. p.* 196. t. 15. *American Viburnum.*

- CAL. *Perianth* one-leaved, very short, converging, obscurely four-tooth'd, tubular.
- COR. one-petal'd, subequal. *Tube* cylindric, slender, longer than the calyx, rather oblique. *Border* flat, unequally four-cleft, obtuse.
- STAM. *Filaments* four, very minute, placed in the middle of the tube of the corol, very slender, of which *two* are rather superior. *Anthers* in the same place, roundish.
- PIST. *Germ* roundish. *Style* thread-form, the length of the stamens. *Stigma* refracted, acute downwards like a hook, and growing as if obliquely to the top of the style.
- PER. *Drupe* roundish, one-cell'd.
- SEED *Nut* pyramid-round, two-cell'd. *Nucleuses* as many, oblong.
- Obs. *The essential Character consists in the form of the Stigma.*

*Camara Plum. Involucre* many leaved: *The common oblong Receptacle of the fructifications collects the flowers, often very unequal.* *Africana (african)* is distinguished by the involucre, and has more regular flowers; the border five-cleft, subequal; with a globular base; calyx five-parted, with awl'd divisions; *Nucleus* globular, two-cell'd.

*Nut* with three cells; of which the two superior closed ones contain the seeds; the third inferior open one is replete with the pulp of the *Drupe* and some dust. *Medic in Aët. palat. Vol. 3. phys. p.* 200. t. 16. R.

*Spielmannia Medic. or lantana africana (african) L. differs from Lantana in a two cell'd Nut, anthers four-male, not twin and other attributes. Medic. l. c. R.*

766. CORNUTIA. \* *Plum.* 17. *Agnanthus Vail.*  
A. G. 1722.

CAL. *Perianth* one-leaved, roundish, very small, tubular, five-tooth'd, permanent.

COR. one-petal'd, grinning. *Tube* cylindric, much longer than the calyx. *Border* four-cleft, the superior *divisor* erect, roundish; the lateral ones distant; the inferior one roundish, intire.

STAM. *Filaments* four, of which two are prominent without the tube of the corol. *Anthers* simple, inclining.

PIST. *Germ* roundish. *Style* very long, two-parted. *Stigmas* thickish.

PER. *Berry* globular, contain'd in the base of the calyx.

SEED one, kidney-form.

767. LOESELIA. † *Royenia Haust.* A. A.

CAL. *Perianth* one leaved, tubular, four-cleft, acute, short, permanent.

COR. one-petal'd, unequal. *Tube* the length of the calyx. *Border* five-parted: all the *divisions* deflected to the inferior side, egg-lanced, equal in size.

STAM. *Filaments* four, the length of the corol: of which two are shorter; all are opposite and reflected to the divisions of the petal, in a situation contrary to the corol. *Anthers* simple.

PIST. *Germ* egg'd. *Style* simple, the situation of the *stamens*. *Stigma* thickish.

PER. *Capsule* egg'd, three-cell'd.

SEEDS many, angular.

768. CAPRÁRIA.

CAL. *Perianth* one-leaved, five-parted, oblong: the *divisions* linear, erect, distant, permanent, shorter than the corol.

COR. one-petal'd, bell'd, five-cleft, subequal: the *divisions* oblong, acute: the two superior ones more erect.

STAM. *Filaments* four, awl'd, inserted into the base of the corol, shorter by half than the corol, of which the two inferior are rather shorter. *Anthers* hearted.

PIST. *Germ* conic. *Style* thread-form, longer than the *stamens*. *Stigma* hearted, two-valved, equal.

PER. *Capsule* cone-oblong, compress'd at the top, two-cell'd, two-valved, with a contrary partition.

SEEDS very numerous, roundish.

## 1315. LINDÉRNIA. † Allioni.

CAL. *Perianth* five-parted: the *leaflets* linear, acute, equal, permanent.

COR. one-petal'd, grinning, two-lip'd. *Upper lip* very short, concave, end-nick'd. *Under lip* erect, three-cleft: the middle rather larger.

STAM. *Filaments* four, twin: the two superior ones simple; the two inferior ascending: with a straight terminal tooth. *Anthers* twin; the inferior ones sublateral.

PIST. *Germ* egg'd. *Style* thread-form, *Stigma* end-nick'd.

PER. *Capsule* oval, one-cell'd, two-valved.

SEEDS numerous. *Receptacle* cylindric.

## 769. SELAGO.

CAL. *Perianth* one-leaved, four-cleft, small, permanent: the inferior division larger.

COR. one-petal'd. *Tube* very small, thread-form, scarcely perforated. *Border* expanding, five-parted, subequal: the two superior divisions less; the lowest larger.

STAM. *Filaments* four, capillary, the length of the corol, into which they are inserted, of which the two superior are longer. *Anthers* simple.

PIST. *Germ* roundish. *Style* simple, the length of the stamens. *Stigma* simple, acute.

PER. none. *Corol* involving the seed.

SEED one or two, roundish.

OBS. *S. polystachia* (many-spiked) has fruit two-partible; and *S. rapunculoides* (rapunculus-like) has a four-cleft calyx: the two exterior divisions larger. R.

## 1264. MANŪLEA.

CAL. *Perianth* five-parted: the *leaflets* linear, erect, equal, permanent

COR. one-petal'd, irregular. *Tube* cylindric, with the throat rather broader. *Border* five-parted, awl'd, expanding: the four superior *divisions* more connected at the base: the lowest reflected.

STAM. *Filaments* four, very short. The two superior *Anthers* in the throat; the two inferior ones oblongish, within the tube.

PIST. *Germ* above, roundish *Style* thread-form, the length of the inferior stamens. *Stigma* simple.

PER. *Capsule* egg'd, the length of the calyx, two-cell'd, two-valved.

SEEDS very numerous.

## 770. HEBENSTREITIA.

CAL. *Perianth* one-leaved, tubular, membranous, end-nick'd, gaping longitudinally underneath.

COR. one-petal'd, one-lip'd. *Tube* cylindric, longer than the calyx, gaping half the way on the under side. *Border* one-lip'd, ascending, flattish, four-cleft, subequal.

STAM. *Filaments* four, of these the two earlier ones stand out under the throat, inserted into the margin of the corol; the two later are interior, inferior; reflected to the sides. *Anthers* mooned, compress'd, outwardly lop'd.

PIST. *Germ* very small. *Style* thread-form, flexile, reflected through the fissure of the corol. *Stigma* simple.

PER.

SEEDS two, oblong, on one side convex, three-furrow'd, flat on the other.

771. ERINUS. \* *Ageratum Tournef.* 422.

CAL. *Perianth* five-leaved: the *leaflets* lanced, erect, subequal, permanent.

COR. one-petal'd, unequal. *Tube* egg-cylindric, the length of the calyx, reflected. *Border* flat, five-parted: the *divisions* equal, inverse-hearted.

STAM. *Filaments* four, very short, within the tube of the corol, of which two are opposite, rather longer. *Anthers* small.

PIST. *Germ* rather egg'd. *Style* very short. *Stigma* headed.

PER. *Capsule* egg'd, obvolute in the calyx, two-cell'd, gaping two-ways.

SEEDS numerous, small.

## 772. BUCH-

772. BUCHNÉRA. † *Hort. Cliffort.* 501.

CAL. *Perianth* one-leaved, obscurely five-tooth'd, rugged, permanent.

COR. one-petal'd. *Tube* very long, thread-form, bow'd. *Border* flat, short, five-cleft, equal: the two superior *divisions* very short, reflected; the three inferior ones hearted, subequal.

STAM. *Filaments* four, very short, in the throat of the corol, of which the two superior ones are prominent without, short.

*Anthers* oblong, obtuse.

PIST. *Germ* egg-oblong. *Style* thread-form. the length of the tube. *Stigma* obtuse.

PER. *Capsule* egg-oblong, pointed, covered, two-cell'd, gaping two ways at the top.

SEEDS numerous, angular.

OBS. *The Calyx and Corol vary in their form, and the Stamens in their insertion.*

773. BROWÁLLIA. \* *Hort. Cliffort.*

CAL. *Perianth* one-leaved, tubular, short, five-tooth'd, permanent: the *toothlets* rather unequal.

COR. one-petal'd, funnel-form. *Tube* cylindric, twice as long as the calyx. *Border* flat, equal, five-cleft, with *divisions* rounded, end-nick'd; the *superior one* rather larger, constituting the upper lip; the other four equal.

STAM. *Filaments* four, in the throat of the corol: the two superior ones very short; the inferior broader, higher, coloured, reflected, closing the throat of the corol. *Anthers* simple, incurved, converging: the interior ones twin; the exterior ones gaping with a perforation at the top, closing the throat of the corol.

PIST. *Germ* egg'd, retuse. *Style* thread-form, the length of the tube of the corol. *Stigma* thick, four-lobed.

PER. *Capsule* egg'd, obtuse, one-cell'd, covered, gaping four ways at the top.

SEEDS numerous, small. *Receptacle* columnarish, compress'd.

774. LIN-

774. LINNÆA. \* *Auctore Cl. Gronovio.*CAL. *Perianth* double.

P. of the *Fruit* beneath, four-leaved; the *two* opposite leaves very small, acute; the *two* others elliptic, concave, erect, hispid, embracing the germ, converging, permanent.

P. of the *flower* above, one-leaved, five-parted, erect, narrow, acute, equal.

COR. one-petal'd, top-shape, half-fivecleft, obtuse, subequal, twice as large as the calyx of the flower.

STAM. *Filaments* four, awl'd, inserted into the bottom of the corol: of which *two* are very small; the *two* nearest ones longer, shorter than the corol. *Anthers* compressed, versatile.

PIST. *Germ* roundish, beneath. *Style* thread-form, straight, the length of the corol, declining. *Stigma* globular.

PER. *Berry* juiceless, egg'd, three-cell'd, covered with the hispid glutinous perianth of the fruit, deciduous.

SEEDS two, roundish.

OBS. The Corol is bell'd. Syst. Veget. R.

## 775. SIBTHÓRBIA. †

CAL. *Perianth* one-leaved, top-shape, five-parted, expanding: the leaflets egg'd, permanent.

COR. one-petal'd, five-parted, expanding, equal, the length of the calyx, with rounded divisions.

STAM. *Filaments* four, capillary: two approximated. *Anthers* heart-oblong.

PIST. *Germ* roundish, compress'd. *Style* cylindric, thicker than the filaments, the length of the flower. *Stigma* simple, headed, depressed.

PER. *Capsule* compressed, orbicular, twice-bellied, with sides acute, two-valved, two-cell'd: the partition transverse.

SEEDS few, oblong-roundish; convex on one side, flat on the other.

776. LIMOSÉLLA. \* *Plantaginella* Dill. gen. 6.  
(*Mud-wort*) *Least Water Plantain*.

- CAL. *Perianth* one-leaved, five-cleft, erect, acute, permanent.  
 COR. one-petal'd, bell'd, erect, equal, five-cleft, acute, small: the *divisions* expanding.  
 STAM. *Filaments* four, erect, of which *two* are approximated to the same side, shorter than the corol. *Anthers* simple.  
 PIST. *Germ* oblong, obtuse. *Style* simple, the length of the stamens, declining. *Stigma* globular.  
 PER. *Capsule* egg'd, semi-involute in the calyx, one-cell'd, two-valved.  
 SEEDS very numerous, oval. *Receptacle* egg'd, very large.

1265. VANDELLIA. *Auth. Cl. Brown*.

- CAL. *Perianth* one-leaved, tubular, four-parted: (the *divisions* nearly egg'd, equal, the highest nearly two-cleft;) permanent.  
 COR. one-petal'd, grinning. *Tube* the length of the calyx. *Border* small, with the upper lip egg'd, intire. *Under lip* dilated, two-lobed.  
 STAM. *Filaments* four, two from the disk of the under lip, bow'd upwards; two from the throat, higher. *Anthers* egg'd, connected by pairs.  
 PIST. *Germ* oblong. *Style* thread-form, the length of the stamens. *Stigmas* two, egg'd, membranous, reflected.  
 PER. *Capsule* oblong, one-cell'd.  
 SEEDS very numerous.

777. STEMÓDIA. *Stemodiakra* Brown. t. 22. f.  
2. *Jacq. amer.* 181.

- CAL. *Perianth* one-leaved, five-parted, erect, equal, permanent.  
 COR. one-petal'd, irregular. *Tube* the length of the calyx. *Border* rather two-lip'd, erectish. *Upper lip* egg'd, intire. *Under lip* three-parted: with rounded, equal divisions.  
 STAM. *Filaments* four, subequal, the length of the tube; all two-cleft. *Anthers* eight, each sitting on a single arm of the filaments.  
 PIST. *Germ* obtusish. *Style* simple, the length of the stamens. *Stigma* obtusish.  
 PER. *Capsule* oblong, egg'd, two-cell'd, two-valved.  
 SEEDS numerous, globular.

778. OBO-

778. OBOLÁRIA. † *Halfpenny.*

CAL. none : except the two Bractes.

COR. one-petal'd, unequal. *Tube* bell'd, bellied, pervious. *Border* four-cleft, spreading : the *divisions* shorter than the tube, two-cleft, rather unequally jagg'd.

STAM. *Filaments* four, awl'd, from the slits of the corol, the nearest are rather longer. *Anthers* small.

PIST. *Germ* egg'd, compress'd. *Style* subcylindric, the length of the stamens. *Stigma* two-cleft, thickish, permanent.

PER. *Capsule* rather egg'd, compress'd, bellied, one-cell'd, two-valved, the partition opposite.

SEEDS numerous, small like meal.

779. OROBÁNCHE. † *Tournef.* 81. *Aphyllon*  
*Mich.* 25. *Broom-rape.*

CAL. *Perianth* one-leaved, five-cleft, erect, coloured, permanent.

COR. one-petal'd, grinning. *Tube* inclining, ample, bellied. *Border* expanding. *Upper lip* concave, open, end-nick'd. *Under lip* reflected, three-cleft, with an unequal margin ; all the *divisions* subequal.

STAM. *Filaments* four, awl'd, concealed under the upper lip, two of which are longer. *Anthers* erect, converging, shorter than the border.

*Nectary* a gland at the base of the germ.

PIST. *Germ* oblong. *Style* simple, the length and situation of the stamens. *Stigma* half-twocleft, obtuse, thickish, nodding.

PER. *Capsule* egg-oblong, pointed, one-cell'd, two-valved.

SEEDS numerous, very small. *Receptacles* four, linear, lateral, adjoined.

OBS. *There is a species with the calyx five-cleft ; each division of the stigma end-nick'd.*

*The Author now defines the calyx two-cleft. Syst. Veg. p. 479. but it is with the corol different in various species. R.*

## 1317. HYOBÁNCHÉ. †

CAL. *Perianth* seven-leaved : the *leaflets* linear, pointed, erect, the length of the corol,

COR. one-petal'd, grinning. *Upper lip* vaulted, end-nick'd. *Under lip* none.

STAM. *Filaments* four, twin, inserted into the base of the corol, middle size. *Anthers* egg'd, nodding, gaping on the superior side.

PIST. *Germ* egg'd. *Style* thread-form, curved at the top. *Stigma* thicken'd, obtuse, end-nick'd.

PER. *Capsule* roundish, two-cell'd.

SEEDS numerous, small.

OBS. *The Calyx and Corol forbid its being associated with Orobanche.*

780. DODÁRTIA. \* *Tournef.* 478.

CAL. *Perianth* one-leaved, bell'd, five-tooth'd, with ten angles, tubular, subequal, flat, permanent.

COR. one-petal'd, grinning. *Tube* cylindric, deflected, much longer than the calyx. *Upper lip* small, end-nick'd, ascending. *Under lip* expanding, broader, three-cleft, twice as long, obtuse : the *intermediate division* narrower.

STAM. *Filaments* four, ascending to the upper lip, and shorter than it. *Anthers* small, roundish, twin.

PIST. *Germ* roundish. *Style* awl'd, the length of the corol. *Stigma* compress'd, oblong, obtuse, two-cleft, with converging folds.

PER. *Capsule* globular, two-cell'd.

SEEDS numerous, very small. *Receptacle* convex, adjoined to the partition.

## 781. LÍP-

781. LÍPPIA. † *Houft.* A. A. *Jacq. amer.* 176.

CAL. *Perianth* two-leaved, above: the *leaflets* distant; pointed, keel'd, erect, permanent.

COR. one-petal'd, unequal. *Border* four-cleft: the *divisions* rounded, the *inferior* and *superior* larger: the *superior* one erect.

STAM. *Filaments* four; shorter than the corol; of which *two* are longer than the rest. *Anthers* simple.

PIST. *Germ* egg'd, flat-compress'd. *Style* thread-form, the situation and length of the *filaments*. *Stigma* oblique.

PER. *Capsule* two-valved, one-cell'd, compress'd, crowned with the calyx like a scale, erect.

SEEDS solitary, oblong.

OBS. *Many fructifications are collected into a head.*

*The Calyx is four-tooth'd, roundish, erect, membrane-compressed. Syst. Veg. 480. R.*

782. SESAMUM. \* *Oily purging Grain.*

CAL. *Perianth* one-leaved, five-parted, erect, equal, very short, permanent: with lanced *divisions*, the highest shorter.

COR. one-petal'd, bell'd. *Tube* roundish, nearly the length of the calyx. *Throat* inflated, expanding, bell'd, very large, declining. *Border* five-cleft: four *divisions* spreading, subequal; the *fifth* lowest rather longer, egg'd, straight.

STAM. *Filaments* four, growing forth from the tube, shorter than the corol, ascending, bristly, of which the *two interior* are shorter, a *Rudiment* of a fifth filament. *Anthers* oblong, acute, erect.

PIST. *Germ* egg'd, shaggy. *Style* thread-form, ascending, rather longer than the *filaments*. *Stigma* lanced, two-parted: with parallel folds.

PER. *Capsule* oblong, obscurely four-cornered, compressed, pointed, four-cell'd.

SEEDS very numerous, nearly egg'd.

OBS. *The flower of Digitalis, but the fruit very different.*

783. MIMULUS. \* *Cynorrhynchium Mitch.* 3.  
*Monkey-flower.*

- CAL. *Perianth* one-leaved, oblong, prismatic, five-angled, five-plaited, five-toothed, equal, permanent.
- COR. one-petal'd, grinning. *Tube* the length of the calyx. *Border* two-lip'd. *Upper lip* erect, two-cleft, rounded, reflected on the sides. *Under lip* broader, three-cleft, with rounded *divisions*: the intermediate one less: the *Palate* convex, two-cleft, protruded from the base of the lip.
- STAM. *Filaments* four, thread-form, within the throat, two shorter. *Anthers* two-cleft, kidney-form.
- PIST. *Germ* conic. *Style* thread-form, the length of the stamens. *Stigma* egg'd, two-cleft, compressed.
- PER. *Capsule* oval, two-cell'd, covered.
- SEEDS very numerous, small.

784. RUELLIA. \* *Plum.* 2. *Dill. elth.* 248. 249.

- CAL. *Perianth* one-leaved, five-parted, permanent: the *divisions* linear, acute, straight, permanent.
- COR. one-petal'd, irregular, with a spreading, inclined *neck*. *Border* five-cleft, expanding, obtuse: the two superior *divisions* more reflected.
- STAM. *Filaments* four, placed in the dilatation of the tube, approximated by pairs. *Anthers* scarcely longer than the tube.
- PIST. *Germ* roundish. *Style* thread-form, the length of the stamens. *Stigma* two-cleft, acute: the inferior division involute.
- PER. *Capsule* columnar, pointed at both ends, the length of the calyx, two-cell'd, two-valved, gaping elastically with claws.
- SEEDS few, roundish, compressed.

785. BAR-

785. BARLÉRIA. † *Plum.* 31.

CAL. *Perianth* four-parted, permanent: the opposite *leaflets* larger.

COR. one-petal'd, funnel-form, five-cleft, subequal; the fifth *division* deeper.

STAM. *Filaments* four, thread-form: two very short, capillary: the the superior *Anthers* oblong; the inferior ones withered.

PIST. *Germ* egg'd. *Style* thread-form, the length of the stamens. *Stigma* two-cleft.

PER. *Capsule* the length of the calyx, acute, flat-quadrangular. two-cell'd? two-valved, gaping elastically without claws.

SEEDS two, compressed, roundish.

OBS. *It is the mean between Ruellia & Justicia.*

786. DURÁNTA. *Castorea Plum.* 17. *Ellisia Brown.*

29. f. 11. *Læfl. it.* 174.

CAL. *Perianth* one-leaved, tubular, somewhat lop'd, five-cleft.

COR. one-petal'd. *Tube* longer than the calyx, rather curved. *Border* expanded, five-parted, subequal, rounded.

STAM. *Filaments* four: the two longer within the tube. *Anthers* roundish.

PIST. *Germ* beneath, roundish. *Style* thread-form, the length of the stamens. *Stigma* thickish.

PER. *Berry* roundish, covered with the calyx.

SEEDS *Nucleuses* four, two-cell'd.

787. OVIÉDA. † *Valdia Plum.* 24.

CAL. *Perianth* one-leaved, five-cleft, bell'd, acute, erect, broadish, short, permanent.

COR. one-petal'd, grinning. *Tube* longest of all, narrow, subcylindric. *Border* short, three-lobed, subequal.

STAM. *Filaments* four, longer than the corol. *Anthers* roundish.

PIST. *Germ* beneath, globular. *Style* thread-form, the length of the stamens. *Stigma* two-cleft, acute.

PER. *Berry* globular, set in the larger, bell-form, erect *Calyx*.

SEEDS two, egg'd.

## MILLINGTONIA. S.

CAL. *Perianth* one-leaved, bell'd, short; the *margin* reflected, five-tooth'd.

COR. one-petal'd, regular. *Tube* very long, thread-form. *Border* four-parted: the *divisions* oblong, intire.

STAM. *Filaments* four, at the superior side of the corol, shorter than the border of the corol, converging by pairs with the Anthers, of which two are shorter, thread-form. *Anthers* two-parted, embracing: the *exterior one* oblong, straight, obtuse, longitudinally gaping: the *lesser one* emitted from the base of the larger, awl'd, incurved.

PIST. *Germ* linear. *Style* thread-form, longer than the stamens and flower. *Stigma* egg'd, two-valved: the *valvelets* equal, egg'd, flat, rather expanding.

PER. Is a Silique?

SEED

788. VOLKAMERIA. \* *Duglassia Houst. A. A.*

CAL. *Perianth* one-leaved, top-shape, five-cleft, subequal, acute.

COR. one-petal'd, grinning. *Tube* cylindric, twice as long as the calyx. *Border* five-parted, subequal, flat: the *divisions* reflected to one side, gaping very much on the superior side.

STAM. *Filaments* four, thread-form, very long, gaping at the side of the corol. *Anthers* simple.

PIST. *Germ* four-corner'd. *Style* thread-form, nearly the length of the stamens. *Stigma* two-cleft: one division acute, the other obscure.

PER. *Berry* roundish, two-cell'd, four-furrow'd.

SEED *Nut* solitary, two-cell'd, furrow'd.

789. CLERODÉNDRON. † *Burm. zeyl.* 29.  
*Fortunate-tree.*

CAL. *Perianth* one-leaved, five-parted, bell'd: the *divisions* egg-acute, broader than the tube of the corol, permanent.

COR. one-petal'd, irregular. *Tube* slender, longer. *Border* five-parted, equal: the superior *divisions* more deeply separated.

STAM. *Filaments* four, thread-form, much longer than the corol, very widely gaping between the divisions of the corol, of which *two* are shorter. *Anthers* simple.

PIST. *Germ* roundish. *Style* with the form, length and situation of the *stamens*. *Stigma* simple.

PER. *Drupe* (*Berry*) roundish, placed on the large calyx.

SEED one, roundish.

790. VÍTEX. \* *Tournef.* 373. *Agnus castus.* *Chaste-tree.*

CAL. *Perianth* one-leaved, tubular, cylindric, very short, five-tooth'd.

COR. one-petal'd, grinning. *Tube* cylindric, slender. *Border* flat, two-lip'd. *Upper lip* three-cleft: the *middle division* broader. *Under lip* three-cleft: *middle division* larger.

STAM. *Filaments* four, capillary, rather longer than the tube, of which *two* are shorter than the rest. *Anthers* versatile.

PIST. *Germ* roundish. *Style* thread-form, the length of the tube. *Stigmas* two, awl'd, expanding.

PER. *Berry* globular, four-cell'd.

SEEDS solitary, egg'd.

791. BÓNTIA. † *Plum.* 23. *Dill. elth.* 49. f. 57.

CAL. *Perianth* one-leaved, five-parted: (the *leaflets* obtuse, erect,) permanent.

COR. one-petal'd, grinning. *Tube* long, cylindric. *Border* gaping. *Upper lip* erect, end-nick'd. *Under lip* revolute, half three-cleft, the size of the upper one.

STAM. *Filaments* four, awl'd, inclining to the upper lip, the length of the corol: *two* higher than the rest. *Anthers* simple.

PIST. *Germ* egg'd. *Style* simple, the length and situation of the *stamens*. *Stigma* two-cleft, obtuse.

PER. *Drupe* egg'd, with an oblique top.

SEED *Nut* oval, one-cell'd, germinating.

1237. AVICENNIA. *Jacq. amer. 178. t. 112.*

- CAL. *Perianth* five-parted, permanent, (the *leaflets* rather egg'd, obtuse, concave, erect;) augmented with three scales.
- COR. one-petal'd. *Tube* bell'd, short. *Border* two-lip'd. *Upper lip* squared, end-nick'd, flat. *Under lip* three-cleft: the *divisions* inverse-egg'd, equal, flat.
- STAM. *Filaments* four, awl'd, erect, of which the two interior are rather shorter, reflected to the upper lip. *Anthers* roundish, twin.
- PIST. *Germ* egg'd. *Style* awl'd, erect, the length of the *stamens*. *Stigma* two-cleft, acute: the inferior division deflected.
- PER. *Capsule* leathery, rhomboidal, compress'd, one-cell'd, two-valved.
- SEED one, large, the form of the capsule, constructed of four fleshy folds, germinating.

792. COLUMNÆA. † *Plum. 33. Achimenes*  
*Brown. 30. f. 3.*

- CAL. *Perianth* one-leaved, five-parted, rather bellied at the base: the *divisions* erect, lanced, permanent.
- COR. one-petal'd, grinning, villous. *Tube* long, gibbous above at the base. *Border* two-lip'd. *Upper lip* straight, end-nick'd. *Under lip* three-parted: the lateral *divisions* lanced, the intermediate longer one more deeply separated, lanced.
- STAM. *Filaments* four, of which two are longer, concealed under the upper lip. *Anthers* simple, connected in a coronet.
- PIST. *Germ* egg'd. *Style* thread-form, the length of the upper lip. *Stigma* two-cleft, obtuse.
- PER. *Capsule* two-cell'd, egg'd.
- SEEDS numerous, small, incumbent on the large *Receptacle*.
- OBS. *The upper lip of the corol is vaulted, intire. Syst. Veg. p. 484. R.*

793. ACANTHUS. \* *Tournef.* 80. *Bear's Breech.*

CAL. *Perianth* with *leaflets* of three alternate pairs, unequal, permanent.

COR. one-petal'd, unequal. *Tube* very short, closed with a *Beard*. *Upper lip* none. *Under lip* very large, flat, straight, very broad, three-lobed, obtuse, the length of the upper lip of the calyx.

STAM. *Filaments* four, awl'd, shorter than the corol: the two superior rather longer, recurvate, incurved at the top. *Anthers* oblong, compress'd, obtuse, lateral, parallel, villous before.

PIST. *Germ* conic. *Style* thread-form, the length of the stamens. *Stigmas* two, acute, lateral.

PER. *Capsule* rather egg'd with a point, two-cell'd; with a lateral partition.

SEED fleshy, gibbous, one of two.

ALÉCTRA. *Thunb. nov. gen. p. 81.*

CAL. *Perianth* one-leaved, 2-lip'd. *Upper lip* two-cleft. *Under lip* three-cleft: the *divisions* egg'd, obtuse, shorter than the tube.

COR. one-petal'd, tubular. *Tube* gradually rather enlarged, half-inch. *Border* expanding, 5-parted, the divisions broad-lanced, obtuse, half-inch.

STAM. *Filaments* four, inserted into the tube, of which two are rather shorter, thread-form, bearded, the length of the tube. *Anthers* egg'd, twin, inserted on their backs.

PIST. *Germ* above. *Style* thread-form, the length of the filaments. *Stigma* incurved, rather thicker than the style, and of the same length, striated on both sides.

PER. *Capsule* egg'd, obtuse, twin, smooth, 2-valved, 2-cell'd.

SEED one in each cell, egg'd.

794. PEDALIUM. † *David Royen.*

CAL. *Perianth* five-parted, small: the highest division very short; the lowest ones longer.

COR. one-petal'd, rather grinning. *Tube* three-corner'd, with a flat belly. *Border* five-cleft, ample, oblique: the divisions rounded; the highest ones less; the lowest one ampler.

STAM. *Filaments* four, shorter than the tube, two shorter. *Anthers* connected in the form of a cross, double.

PIST. *Germ* conic. *Style* the length of the stamens. *Stigmas* two, equal.

PER. *Nut* netted, corky, four-cornered, with four thorny angles towards the base; two-cell'd with an opposite partition.

SEEDS two, oblong, alternate, cloathed with an aril.

OBS. The Character, as described from a living flower by Rottboell in *Collect. Soc. med. Haun. 2. p. 255.*

CAL. & COR. as in *Limæus*.

STAM. *Filaments* four, surrounded at the base with gland-bearing hairs, inflected, less than the tube of the corol, of which two are rather shorter. *Anthers* hearted, twin, with a glandular orange top. The Rudiment of a fifth filament between the two shorter stamens, with a very small simple anther of an orange colour. *Stigma* two-cleft. The superior division reflected at the margin and top; the inferior one revolute. It flourished in the Garden of Copenhagen in the summer of the year 1772. R.

## 1409. AMASÓNIA. S.

CAL. *Perianth* five-parted, one-leaved, bell'd, half-fivecleft, acute, equal, permanent.

COR. one-petal'd, tubular, longer. *Border* five-cleft, subequal, expanding, small.

STAM. *Filaments* four, two-power'd, at the superior side, longer than the corol, incurved at the top. *Anthers* oval, incumbent.

PIST. *Germ* egg'd. *Style* with the situation and form of the filaments. *Stigmas* two, acute.

PER. none.

SEED *Nut* egg'd, the length of the calyx.

795. MELIANTHUS. \* *Tournef.* 245. *Herm.*  
*Judgb.* 415. *Honey-flower.*

**CAL.** *Perianth* large, five-parted, coloured, unequal: the *two superior divisions* oblong. The *lowest division* very short, sack-form, gibbous downwards. The *intermediate divisions* opposite, interior, lanced; with simple, erect tops.

**COR.** *Petals* four, lance-linear, with reflected tops, parallel-expanding, turned outwards, constituting the under lip. (as the calyx itself the upper one), connected in the middle to the lateral ones.

*Nectary* one-leaved, placed within the lowest division of the calyx, and growing to it with the receptacle, very short, compress'd on the sides, gash'd on the margin, turning its back downwards.

**STAM.** *Filaments* four, awl'd, erect, the length of the calyx, of which the *two inferior* are rather shorter. *Anthers* heart-oblong, four-cell'd on the fore part.

**PIST.** *Germ* four-cornered, gibbous, four-tooth'd. *Style* erect, awl'd, the length and situation of the stamens. *Stigma* four-cleft: the highest division larger.

**PER.** *Capsule* four-angled, half-fourcleft, (with acute, distant angles, inflated cells, open partitions in the centre for the receptacle of the seeds), gaping between the angles.

**SEEDS** four, subglobular, annexed to the centre of the capsule.

DOMBÉYA. L'Héritier *Stirpes novæ*.

**CAL.** *Perianth* one-leav'd, tubular, two-lip'd, erect, scalet before it opens, green after the florescence, (the *upper division* oblong, acute, sometimes furnished with an awl'd point at the top of the back like the horn of a Rhinoceros, the *lower division* twice as broad, enlarged above, end-bitten, obscurely four-notch'd, concave, connecting within a membrane, appress'd from one margin to the other), permanent.

**COR.** one-petal'd, longer than the calyx, inserted on the receptacle, villous, expanded and elongated above like an erect, columnar, chamber-hooded *upper lip*, with revolute lateral margins. *Tube* columnar, the length of the calyx. *Throat* oblong, opposed before to the chamber. *Lower lip* none, in the place of which is a very small obtuse toothlet, scarcely discernible in dissecting and unfolding the corol.

**STAM.** *Filaments* 4 of which two are scarcely longer, concealed under the hood, inserted above into the tube, scarcely shorter than the corol. *Anthers* 2-lobed, twin, the lobes oblong, incurbent every way.

**PIST.** *Germ* above, oblong, rather four-corner'd, roughen'd with reflected tawny tubercles, placed on the concave, expanded, nearly four-cleft *receptacle*. *Style* the length, situation and flexure of the hood. *Stigma* small, 2-cleft, acute.

**PER.** *Capsule* leathery, oblong, acute, nearly 4-lobed, unequally thorny: (some thorns twice as long, hook'd), 2-valved, gaping at top, 4-cell'd: the *Partition* 4-wing'd, ending above in an edge; each cell intersected by a less membranous partition into two cells, of which the inner is seed-bearing, the outer one turgid, empty.

**SEEDS** few (4-6) in each cell, scarcely imbricated, inserted within the angle of the partition from the middle towards the base, depress'd out of the less partitions, suborbicular or egg'd, flat, except where they are every way angle-bent by the sides of the partition, girt with a membranous notchletted base-nick'd crest.

**OBS.** *It is singular for the union of the leaves and tendrils, and the defect of the lower lip; as the upper lip is wanting in Teucrium, and the keel and wings in Armopha.*

## CLASS XV.

## FOUR POWERS.

(Tetradynamia.)

FOUR POWERS.\* *Cross-form.* Tournef. *Siliculous and Siliquous.* Raj.

**CAL.** *Perianth* four-leaved, oblong: the *leaflets* egg-oblong, concave, obtuse, converging, gibbous downwards at the base, in opposite pairs, deciduous. Here the calyx is the nectary, hence often gibbous at the base.

**COR.** is called cross-form. *Petals* four, equal: the *claws* flat-awl'd, erect, rather longer than the calyx. *Border* flat: the *folds* broader outwards, obtuse, scarcely touching each other on the sides. The insertion of the petals is in the same circle with the stamens.

**STAM.** *Filaments* six, awl'd, erect, of which the *two opposite* ones are the length of the calyx; the *other four* rather longer, shorter than the corol. *Anthems* oblongish, pointed, thicker at the base, erect, with tops outwardly reclining.

*Nectary-bearing* glands in various and different genera, occur in various manners, sit on the stamens and are especially affixed to the shorter filaments at their base, which lest they should compress, are very often incurved, and thence those two filaments become shorter.

**PIST.** *Germ* above, daily growing higher. *Style* the length of the longer stamens, or none. *Stigma* obtuse.

**PER.** *Siliques* two-valved, often two-cell'd, gaping from the base to the top, with a partition at the top rather prominent beyond the valvelets, which before supplied the place of the style.

**SEEDS** roundish, nodding, alternately and longitudinally immersed in the partition. *Receptacle* linear, encompassing the partition, and immersed in the sutures of the pericarp.

**OBS.** *This Class is really natural and has been assumed as such by all the most able Systematists, yet each of them has added one or two genera contrary to nature, but here there is none except perhaps Cleoma.*

*The plants of this class are said by all to be antiscorbutic, the taste in most of them is acrid and watery.*

*These genera are distinguish'd by all two ways, into those which have a pericarp*

a. *Silicled, that is, roundish, furnish'd with a style, often the length of the Silicle.*

b. *Siliqued, that is, very long, with a style scarcely visible.*

FOUR

## FOUR POWERS.

*(Tetradynamia.)*

## I. With SILICLES.

*(Siliculósa.)*

796	Myágrum.	812	Cardámine.
797	Vélla.	813	Sifýmbrium.
798	Anastática.	814	Erysimum.
799	Subulária.		Chamíra.
800	Drába.	815	Cheiránthus.
801	Lepídium.	816	Helióphila.
802	Thláspi.	817	Hésperis.
803	Cochleária.	818	Árabis.
804	Íberis.	819	Turrítis.
805	Alýssum.	820	Bráffica.
807	Clypéola.	821	Sinápis.
806	Peltária.	822	Ráphanus.
808	Biscutélla.	823	Búnias.
809	Lunária.	824	Ísatis.
		825	Crámbe.
		826	Cléome.

## II. With SILIQUES.

*(Siliquósa.)*

- 810 Ricótia.  
811 Dentária.

1. With

## I. With SILICLES.

(Siliculosa.)

## 796. MYAGRUM. Tournef. 99. Gold of Pleasure.

CAL. *Perianth* four-leaved, the *leaflets* egg-oblong, concave, gaping, coloured, deciduous.

COR. one-petal'd, cross-form. *Petals* flat, roundish, obtuse: with narrow *claws*.

STAM. *Filaments* six, the length of the calyx: of these *four opposite ones* are rather longer. *Anthers* simple.

PIST. *Germ* egg'd. *Style* thread-form, the length of the calyx. *Stigma* obtuse.

PER. *Silicle* inverse-hearted, subcompress'd, intire, rigid, terminated at the top by a rigid conic style, two-valved: often with some vacant cells.

SEEDS roundish.

OBS. Of Myagrum T. the *Pericarp* is one-cell'd, with two vacant cells in the summit, one seed-bearing at the base.

Seed one.

Of Alyssum sp. T. the *Pericarp* is two-cell'd. Seeds few.

## 797. VÉLLA. \* Spanish Cress.

CAL. *Perianth* four-leaved, erect, cylindric: the *leaflets* linear, obtuse, deciduous.

COR. four-petal'd, cross-form. *Petals* inverse-egg'd, expanding: with *claws*; the length of the calyx.

STAM. *Filaments* six, the length of the calyx; of these *two opposite ones* are rather shorter. *Anthers* simple.

PIST. *Germ* egg'd. *Style* conic. *Stigma* simple.

PER. *Silicle* globular, intire, two-cell'd, with a partition twice as large as the *filicle*, egg'd beyond the *filicle*, erect.

SEEDS few, roundish.

OBS. V. Pseudo-Cytisus (*Mock-Cytisus*) bears four filaments larger, castrated, and coadjoined by pairs.

## 798. ANAS-

798. ANASTÁTICA. \* *Rose of Jericho.*

CAL. *Perianth* four-leaved, deciduous: the *leaflets* egg-oblong, concave, erect, deciduous.

COR. four-petal'd, cross-form. *Petals* roundish, flat, expanding: with *claws* nearly the length of the calyx, more expanding.

STAM. *Filaments* six, awl'd, the length of the calyx, erect-expanding: of these *two opposite* ones are more incurved and shorter. *Anthers* roundish.

PIST. *Germ* two-cleft, very small. *Style* awl'd, the length of the *stamens*, permanent. *Stigma* headed.

PER. *Silicle* very short, two-cell'd: the partition ending in a dagger awl'd, oblique, longer than the *silicle* itself; the *valvelets* parallel, making a cell from the inferior half, but standing out from the superior, rounded, concave, gaping, oblique, (hence the pericarp represents the form of the foot of two-hoof'd cattle).

SEEDS solitary, roundish.

Obs. A. *syriaca* (*syrian*) the *silicle* is egg'd, not two-cleft.

769. SUBULÁRIA, \* (*Awl-wort*) *Rough-leaved Alysson.*

CAL. *Perianth* four-leaved: the *leaflets* egg'd, concave, rather expanded, deciduous.

COR. four-petal'd, cross-form. *Petals* inverse-egg'd, intire, rather larger than the calyx.

STAM. *Filaments* six, shorter than the corol: of these *two opposite ones* are still shorter. *Anthers* simple.

PIST. *Germ* egg'd. *Style* shorter than the *silicle*. *Stigma* obtuse.

PER. *Silicle* egg'd, subcompress'd, intire, furnished with a very short *style*, two-cell'd: the *partition* contrary to the *valvelets*: the *valvelets* egg'd, concave.

SEEDS few, very minute, roundish.

800. DRA-

800. DRÁBA. \* *Dill. gen.* 122. *Whitlow-Grass.*

CAL. *Perianth* four-leaved: the *leaflets* egg'd, concave, erect-expanded, deciduous.

COR. four-petal'd, cross-form. *Petals* oblong, rather expanding: with very minute *claws*.

STAM. *Filaments* six, the length of the calyx: of these four *opposite ones* are rather longer, erect-expanding. *Anthers* simple.

PIST. *Germ* egg'd. *Style* scarcely any. *Stigma* headed, flat.

PER. *Silicle* oval-oblong, compress'd, intire, destitute of a style, two-cell'd, the partition parallel to the *valvelets*: the *valvelets* flat-concave.

SEEDS many, small, roundish.

OBS. In some the *Petals* are two-parted even to the *claws*, in others only end-nick'd at the top, in others most intire.

The essential character consists in a *silicle*, oblong, oval, compress'd, nearly destitute of a style; hence it is easily distinguished from *Alyssum* *Subularia* and *Lunaria*.

801. LEPÍDIUM. \* *Tournef.* 103. *Nasturtium*  
*Tournef.* 102. *Pepper-wort.* *Dittander.*

CAL. *Perianth* four-leaved: the *leaflets* egg'd, concave, deciduous.

COR. four-petal'd, cross-form. *Petals* inverse-egg'd, twice as long as the calyx: with narrow *claws*.

STAM. *Filaments* six, awl'd, the length of the calyx, of these two *opposite ones* are shorter. *Anthers* simple.

PIST. *Germ* hearted. *Style* simple, the length of the *stamens*. *Stigma* obtuse.

PER. *Silicle* hearted, end-nick'd, compress'd, acute on the margin, two-cell'd: the *valvelets* boated, keel'd, contrary to the lanced partition.

SEEDS few, egg-pointed, narrow at the base, nodding.

OBS. Of *Nasturtium* T. the *Pericarp* is acuter on the margin, and often more end-nick'd at the top.

L. *Iberis* has a two-male flower, which is unusual in this class.

L. *rudérale* (rubbish) is petalless.

L. *alpinum* (alpine) has a four-male flower.

## 802. THLÁS-

802. **THLASPI.** \* *Tournef.* 101. F.G.H.I.K.L.  
*Dill.gen.* 6. *BurstaPastoris* *Tournef.* 103.  
*Treacle Mustard.* *Shepherd's Purse.*

- CAL.** *Perianth* four-leaved: the *leaflets* egg'd, concave, erect-expanded, deciduous.
- COR.** four-leaved, cross-form. *Petals* inverse-egg'd, twice as long as the calyx: with narrow *claws*.
- STAM.** *Filaments* six, shorter by half than the corol, of these *two opposite ones* are still shorter. *Anthers* pointed.
- PIST.** *Germ* roundish, compress'd, end-nick'd. *Style* simple, the length of the stamens. *Stigma* obtuse.
- PER.** *Silicle* compress'd, inverse-hearted, end-nick'd, with the style the length of the end-nick, two-cell'd, with a lanced *partition*; the *valvelets* boated, margin-keel'd.
- SEEDS** many, nodding, affixed to the sutures.
- Obs.** Of *Bursta pastoris* T. *The Silicle is inverse-hearted, destitute of a margin.*  
 Of *Thlaspi* T. *the Silicle inverse-hearted, girt with an acute margin.*

803. **COCHLEARIA.** \* *Tournef.* 101. (*Spoonwort*) *Scurvy-grass, Horse-radish.*

- CAL.** *Perianth* four-leaved: the *leaflets* egg'd, concave, gaping, deciduous.
- COR.** four-petal'd, cross-form. *Petals* inverse-egg'd, expanding, twice as large as the calyx: with *claws* narrow, shorter than the calyx, expanded.
- STAM.** *Filaments* six, awl'd, the length of the calyx; of these *two opposite ones* are shorter. *Anthers* obtuse, compress'd.
- PIST.** *Germ* hearted. *Style* simple, very short, permanent. *Stigma* obtuse.
- PER.** *Silicle* hearted, gibbous, turgid, end-nick'd, furnished with a style, two-cell'd, rugged, with gibbous obtuse *valvelets*.
- SEEDS** about four in each cell.

804. **IBE-**

804. *IBERIS*. \* *Dill. gen. 6. Candy-tuft.*

CAL. *Perianth* four-leaved: the *leaflets* inverse-egg'd, concave, expanding, small, equal, deciduous.

COR. four-petal'd, unequal. *Petals* inverse-egg'd, obtuse, expanding, with oblong, erect *claws*: of these the two exterior nearest *Petals* are much larger, equal to each other; the two interior ones very small, reflected.

STAM. *Filaments* six, awl'd, erect: of which the two lateral ones are shorter. *Anthers* roundish.

PIST. *Germ* roundish, compress'd. *Style* simple, short. *Stigma* obtuse.

PER. *Silicle* erect, suborbicular, compress'd, end-nick'd, girt with an acute margin, two-cell'd: with a lanced partition: the *valvelets* boated, compress'd, keel'd.

SEEDS few, nearly egg'd.

OBS. *J. rotundifolia* (round-leaved) has flowers nearly equal, and a sub-quadrangular *silicle*.

805. *ALYSSUM*. \* *Tournef. 104. Alyssoides Tournef. 104. Vesicaria Tournef. Mad-wort.*

CAL. *Perianth* four-leaved, oblong: the *leaflets* egg-oblong, obtuse, converging, deciduous.

COR. four-petal'd, cross-form. *Petals* flat, shorter than the calyx, most expanded: with *claws* the length of the calyx.

STAM. *Filaments* six, the length of the calyx: of these two opposite ones are rather shorter, marked with a toothlet. *Anthers* erect, expanding.

PIST. *Germ* nearly egg'd. *Style* simple, the length of the stamens, longer than the germ. *Stigma* obtuse.

PER. *Silicle* subglobular, end-nick'd, furnished with a style the length of the *silicle*, two-cell'd: with an elliptic partition; the *valvelets* ellipse-hemispheric.

SEEDS few, orbicular, affixed to thread-form receptacles, in their egress to the top of the *silicle*.

OBS The *Petals* in some are end-nick'd, in others intire.

The *Silicle* in some bellied, in others compress'd, (but not oblong).

The essential character consists in the less filaments, with a toothlet inserted within at the base.

807. *CLY-*

807. CLYPEOLA. \* *Jonthlaspi Tournef.* 99.  
*Shield-wort.*

- CAL. *Perianth* four-leaved; the *leaflets* egg-oblong, permanent.  
 COR. four-petal'd, cross-form. *Petals* oblong, intire: with claws rather longer than the calyx.  
 STAM. *Filaments* six, shorter than the corol: of these *two opposite* ones are still shorter. *Anthers* simple.  
 PIST. *Germ* roundish, compress'd. *Style* simple. *Stigma* obtuse.  
 PER. *Silicle* orbicular, end-nick'd; flat-compress'd, erect, deciduous, two-valved: with orbicular *valvelets*.  
 SEEDS orbicular in the center of the pericarp.  
 OBS. Of *C. Jonthlaspi* the *stamens* are marked with a toothlet, as in *Alyssum*. R.

806. PELTÁRIA. *Jacq. vind.* 260. *Target-wort.*

- CAL. *Perianth* four-leaved; the *leaflets* egg'd, concave, erect, coloured, deciduous.  
 COR. four-petal'd, cross-form. *Petals* inverse-egg'd, intire, flat; with claws shorter than the calyx.  
 STAM. *Filaments* six, awl'd: of these two opposite ones are shorter, the length of the calyx. *Anthers* simple.  
 PIST. *Germ* roundish, compress'd. *Style* short. *Stigma* simple, obtuse.  
 PER. *Silicle* intire, suborbicular, flat-compress'd, one-cell'd, not-gaping.  
 SEED one, roundish, flat-compress'd, end-nick'd.

808. BIS-

808. BISCUTELLA. \* *Thlaspidium Tournef.* 101.  
*Buckler.*

CAL. *Perianth* four-leaved; the *leaflets* egg'd, pointed, gibbous at the base, colour'd, deciduous.

COR. four-petal'd, cross-form. *Petals* oblong, obtuse, expanding.

STAM. *Filaments* six, the length of the tube of the corol; of these two opposite ones are shorter. *Anthers* simple.

PIST. *Germ* compress'd, orbicular, end-nick'd. *Style* simple, permanent, *Stigma* obtuse.

PER. *Silicle* erect, flat-compress'd, half-twocleft with roundish lobes, two-cell'd: the partition lanced, terminated by a rigid style: the cells two-valved, affixed to the partition (on its straight margin).

SEEDS solitary, roundish, compress'd, placed in the middle of the cell.

OBS. *The two exterior leaflets of the calyx, in some species have a tube-concave, melliferous, prominent base.*

809. LUNARIA. \* *Tournef.* 105. *Moon-wort.*  
*Sattin-flower.*

CAL. *Perianth* four-leaved, oblong; the *leaflets* egg-oblong, obtuse, converging, deciduous, of which two alternate ones are gibbous and bag'd at the base.

COR. four-petal'd, cross-form. *Petals* intire, obtuse, large, the length of the calyx, ending in *claws* of the same length.

STAM. *Filaments* six, awl'd, the length of the calyx; of these four are the length of the calyx, but two rather shorter. *Anthers* erect-expanding.

PIST. *Germ* pedicel'd, egg-oblong. *Style* short. *Stigma* obtuse, intire.

PER. *Silicle* elliptic, flat-compress'd, intire, erect, very large, pedicel'd, terminated by a style, two-cell'd, two-valved; the partition parallel, and equal to the valvelets, flat.

SEEDS few, kidney-form, compress'd, margined, placed in the middle of the filicle. *Receptacles* thread-form, long, inserted into the lateral futures.

II. *With*

## II. With SILIQUES.

(Siliquosa.)

## 810. RICOTIA. \*

CAL. *Perianth* four-leaved: the *leaflets* oblong, parallel-approximated, deciduous.

COR. four-petal'd, cross-form. *Petals* inverse-hearted, expanding.

STAM. *Filaments* six, the length of the tube; of these *two* opposite ones are rather shorter. *Anthers* oblong, acute.

PIST *Germ* cylindric, the length of the stamens. *Style* scarcely any. *Stigma* acute.

PER. *Siliqua* lance-oval, one-cell'd, two-valved: with flat *valvelets*.

SEEDS about four, orbicular, compress'd.

811. DENTARIA. \* *Tournef.* 110. *Tooth-wort.*

CAL. *Perianth* four-leaved: the *leaflets* egg-oblong, longitudinally converging, obtuse, deciduous.

COR. four-petal'd, cross-form. *Petals* roundish, obtuse, scarcely end-nick'd, flat, ending in *Claws* the length of the calyx.

STAM. *Filaments* six, awl'd, the length of the calyx, of these *two* are shorter. *Anthers* heart-oblong, erect.

PIST. *Germ* oblong, the length of the stamens. *Style* very short, thick. *Stigma* obtuse, end-nick'd.

PER. *Siliqua* long, columnar, two-cell'd, two-valved, elasticly bursting with revolute valvelets: the *partition* rather longer than the valves.

SEEDS many, nearly egg'd.

812. CARDAMINE. \* *Tournef.* 109. *Lady's smock.*

CAL. *Perianth* four-leaved: the *leaflets* egg-oblong, obtuse, rather expanded, gibbous, small, deciduous.

COR. four-petal'd, cross-form. *Petals* inverse-egg-oblong, most expanding, ending in *Claws* erect, twice as long as the calyx.

STAM. *Filaments* six, awl'd: of these *two opposite* ones are double the length of the calyx, but the rest rather longer. *Anthers* small, heart-oblong, erect.

PIST. *Germ* slender, cylindric, the length of the stamens. *Style* none. *Stigma* obtuse-headed, intire.

PER. *Siliqua* long, cylinder-compress'd, two-cell'd, two-valved: the *valvelets* spirally revolving in gaping.

SEEDS many, roundish.

OBS. *There is a species oftner destitute of those two lesser stamens, and another destitute of Petals. In C. petræa (rock) the valvelets of the siliqua gape indeed from the base, but are not roll'd back.*

813. SISYMBRIUM. \* *Tournef.* 109. *Radicula Dill. gen. 6. Water-cress.*

CAL. *Perianth* four-leaved: the *leaflets* lance-linear, expanding, coloured, deciduous.

COR. four-petal'd, cross-form. *Petals* oblong, expanding, oftner less than the calyx, with very small claws.

STAM. *Filaments* six, longer than the calyx: of these *two opposite* ones are rather shorter. *Anthers* simple.

PIST. *Germ* oblong, thread-form. *Style* scarcely any. *Stigma* obtuse.

PER. *Siliqua* long, incurved, gibbous, columnar, two-cell'd, two-valved; the *valvelets* rather straighter in gaping: with a partition rather longer than the valvelets.

SEEDS very numerous, small.

OBS. *Sophia bears a corol shorter than the calyx, and a very slender, very long siliqua.*

*Radicula D. produces a very short, gibbous siliqua, as S. sylvestre (wood) and amphibium (amphibious).*

814. ERY-

814. ERYSIMUM. \* *Tournef.* III. *Hedge-Mustard.*

CAL. *Perianth* four-leaved: the *leaflets* egg-oblong, parallel-converging, coloured, deciduous.

COR. four-petal'd, cross-form. *Petals* oblong, flat, very obtuse at the top: with *claws* the length of the calyx, erect.

A *Nectary-bearing* double gland within the shorter filament.

STAM. *Filaments* six, the length of the calyx: of these *two opposite* ones are shorter. *Anthers* simple.

PIST. *Germ* linear, four-corner'd, the length of the stamens. *Style* very short. *Stigma* headed, permanent, small.

PER. *Siliqua* long, linear, straight, exactly four-corner'd, two-valved, two-cell'd.

SEEDS very numerous, small, roundish.

CHAMIRA. *Thunberg. nov. gen.*

AL. *Perianth* 4-leaved, erect, closed, rather shorter than the claws of the corol; the *leaflets* lanced, convexish outwardly; two of them opposite to the longer stamens, produced at the base into a nectary horn'd, straight, white, twice as short as the calyx.

COR. 4-petal'd, crossed: the *claws* linear, erect; the *lobes* egg'd, obtuse, expanding, the length of the claws. *Nectary*: a gland, globular, green, smooth, sessile without the shorter stamens, one on each side.

STAM. *Filaments* 4, inserted into the receptacle, line-awl'd; rather shorter than the calyx, erect, white; four longer, two opposite ones twice as short. *Anthers* egg'd; the four longer filaments converging.

PIST. *Germ* above, egg'd, smooth. *Style* very short. *Stigma* obtuse.

PER. *Siliqua* oblong, straight on the back, convex on the belly, rather jointed, two-valved.

SEEDS many, egg'd,

815. CHEIRANTHUS. \* *Leucoium Tournef.*107. *Wall-flower.*

CAL. *Perianth* four-leaved, compress'd: the *leaflets* lanced, concave, erect, parallel-converging, deciduous: of which the two exterior are gibbous at the base.

COR. four-petal'd, cross-form. *Petals* roundish, longer than the calyx; with *claws* the length of the calyx.

STAM. *Filaments* six, awl'd, parallel, the length of the calyx: of these the two within the calyx-leaflets are gibbous, rather shorter. *Anthers* erect, two-cleft at the base, acute and reflected at the top.

*A nectary-bearing gland* surrounds the base of the stamen on all sides.

PIST. *Germ* prismatic, four-corner'd, the length of the stamens marked on both sides with a tubercle. *Style* very short, compress'd. *Stigma* oblong, two-parted, reflected, thickish permanent.

PER. *Silique* long, compress'd, (with two opposite angles obliterated marked with a toothlet), two-cell'd, two-valved, furnished with a very short style, and a two-cleft, erect stigma.

SEEDS very numerous, pendulous, alternate, nearly egg'd, flat, with a membranous margin.

OBS. *The toothlet sitting on each side of the germ, nearly vanishes in some, in others increases.*

Of *C. tricuspidatus* (three-piked) the top of the silique is three-piked.

Of *C. erysimoides* (erysimum-like) the silique is four-corner'd.

816. HELIOPHILA. \* *Nic. Burmanno auctore, nov. Act. Upsal. Vol 1. p. 94. t. 7. Sun-lover.*

CAL. *Perianth* four-leaved: the *leaflets* expanding, oblong, concave, membranous on the margin, deciduous: the two exterior ones bladder'd at the base.

COR. four-petal'd, cross-form: *Petals* roundish, flat, sessile.

*Nectaries* two from the receptacle, recurved towards the bladder of the calyx.

STAM. *Filaments* six, awl'd, erect, the length of the calyx, two opposite ones rather shorter. *Anthers* oblong, erect.

PIST. *Germ* cylindric. *Style* shorter than the germ. *Stigma* obtuse.

PER. *Silique* columnar, rather wreathed, dagger'd, two-cell'd, two-valved.

SEEDS many.

817. HE

817. HESPERIS. \* *Tournef.* 108. *Dame's violet Rocket.*

CAL. *Perianth* four-leaved: the *leaflets* lance-linear, parallel-converging, incumbent above, gaping beneath, deciduous: of which *two opposite* ones are gibbous at the base.

COR. four-petal'd, cross-form. *Petals* oblong, the length of the calyx, rather reflected obliquely contrary to the motion of the sun, ending in attenuated *claws*, the length of the calyx.

STAM. *Filaments* fix, awl'd, the length of the tube; of these two are shorter by half. *Anthers* linear, erect, reflected at the top.

A pointed *melliferous gland*, placed between the shorter stamen and the germ, and then surrounding the same stamen.

PIST. *Germ* the length of the calyx, prismatic, four-corner'd. *Style* none. *Stigma* two-parted, situated inwards, oblong, erect, two-fork'd at the base, converging at the top, withering.

PER. *Siliques* long, flat-compress'd, straight, two-cell'd, two-valved: the *valves* the length of the partition.

SEEDS very numerous, egg'd, compress'd.

OBS. *H. lacera* (lacerated) the *siliques* are knotty, three-piked. R.

818. ARABIS. \* *False Tower Mustard.*

CAL. *Perianth* four-leaved, deciduous: the *leaflets* parallel-converging: *two opposite* larger ones egg-oblong, acute, prominentish at the base, gibbous, concave: the *other two* linear, erect.

COR. four-petal'd, cross-form. *Petals* egg'd, expanding, ending in *claws* the length of the calyx.

*Nectaries* four: each from a scalelet within the bottom of the calyx-leaflet, affixed to the receptacle, reflected, permanent.

STAM. *Filaments* fix, awl'd, erect: of these *two* are the length of the calyx; *four* twice as long. *Anthers* hearted, erect.

PIST. *Germ* columnar, the length of the stamens. *Style* none. *Stigma* obtuse, intire.

PER. *Siliques* compress'd, very long, linear, unequal in the wreathes at the seeds: the *valvelets* nearly the length of the partition.

SEEDS very numerous, roundish, compress'd.

OBS. The *Nectaries* and *Stigma* neither demonstrate it to be *Cheiranthus*, nor *Hesperis*.

819. TURRITIS. \* *Tournef. Dill. gen. Tower-Mustard.*

- CAL. *Perianth* four-leaved: the *leaflets* egg-oblong, parallel-converging, deciduous.  
 COR. four-petal'd, cross-form. *Petals* egg-oblong, obtuse, erect, intire: with erect *claws*.  
 STAM. *Filaments* six, awl'd, erect, the length of the tube: of these two are shorter. *Anthers* simple.  
 PIST. *Germ* the length of the flower, columnar, subcompress'd. *Style* none. *Stigma* obtuse.  
 PER. *Siliqua* the longest of all straight, four-corner'd, (the opposite alternate angles obscure and subcompress'd), two-cell'd, two-valved: the *valvelets* scarcely equalling the partition.  
 SEEDS most numerous, roundish, end-nick'd.

820. BRASSICA. \* *Tournef. 106. Rapa Tournef. 113. Cabbage. Turnep.*

- CAL. *Perianth* four-leaved, erect: the *leaflets* lance-linear, concave-channel'd, gibbous at the base, erect, parallel, deciduous.  
 COR. four-petal'd, cross-form. *Petals* nearly egg'd, flat, expanding, intire, gradually attenuated into *claws* nearly the length of the calyx.  
*Nectary-bearing glands* four egg'd; of which *one* is placed on both sides between the shorter stamen and the pistil, and *one* on both sides between the longer stamens and the calyx.  
 STAM. *Filaments* six, awl'd, erect: of these *two opposite* ones are the length of the calyx; and *four* longer. *Anthers* erect, pointed.  
 PIST. *Germ* columnar, the length of the stamens. *Style* short, the thickness of the germ. *Stigma* headed, intire.  
 PER. *Siliqua* long, columnarish, depress'd on both sides; (the *partition* with a prominent columnar top), two-cell'd, two-valved: the *valvelets* shorter than the partition.  
 SEEDS many, globular.  
 OBS. *Napus* T. scarcely differs in appearance from *Rapa*.  
*Rapa* T. the calyx has the colour of the corol.  
*Brassica* P. the calyx is green.

## 821. SINAPIS. \* Sinapi Tornef. 112. Mustard.

CAL. *Perianth* four-leaved, expanding: the *leaflets* linear, concave-channel'd, cross-form-expanding, deciduous.

COR. four-petal'd, cross-form. *Petals* roundish, flat, expanding, intire: sitting on *claws* erect, linear, scarcely the length of the calyx.

Four, egg'd *nectary bearing glands*: of which *one* is placed on each side between the shorter stamen and the pistil, and *one* on each side between the longer stamens and the calyx.

STAM. *Filaments* fix, awl'd, erect: of these *two opposite* ones are the length of the calyx, and *four* are longer. *Anthers* erect-expanding, pointed.

PIST. *Germ* columnar. *Style* the length of the germ, the height of the stamens. *Stigma* headed, intire.

PER. *Siliqua* oblong, brawny below, rugged, two-cell'd, two-valved: the *partition* oftner twice as long as the valvelets, large, compress'd.

SEEDS many, globular.

Obs. Hence Sinapis differs from Brassica in an expanding calyx, yet with the claws of the corol erect.

## 822. RAPHANUS. \* Tournef. 114. Raphanistrum Tournef. 115. Radish.

CAL. *Perianth* four-leaved, erect: the *leaflets* oblong, parallel, converging, deciduous, gibbous at the base.

COR. four-petal'd, cross-form. *Petals* inverse-hearted, expanding: the *claws* rather longer than the calyx.

Four *nectary-bearing glands*: *one* on each side between the short stamen and the pistil: and *one* on each side between the longer stamens and calyx.

STAM. *Filaments* fix, awl'd, erect: of these *two opposite* ones are the length of the calyx, and *four* the length of the claws of the corol. *Anthers* simple.

PIST. *Germ* oblong, bellied, attenuated, the length of the stamens. *Style* scarcely any. *Stigma* headed, intire.

PER. *Siliqua* oblong with a point, bellied with wreathes, rather jointed, columnar.

SEEDS roundish, smooth.

Obs. Of Raphanus T. the fruit is spongy, two-cell'd, not gaping.

Of Raphanistrum T. the fruit is jointed, opening according to the joints.

823. BUNIAS. \* *Erucago Tournef.* 103.

CAL. *Perianth* four-leaved: the *leaflets* egg-oblong, expanding, deciduous.

COR. four-petal'd, cross-form. *Petals* inverse-egg'd, twice as long as the calyx: the *claws* attenuated, erect.

STAM *Filaments* six, the length of the calyx; of these *two opposite* ones are rather shorter. *Anthers* erect, two-cleft at the base.

PIST. *Germ* oblong. *Style* none. *Stigma* obtuse.

PER. *Silicle* irregular, egg-oblong, four-sided, (the angles with one or two points), not gaping, deciduous.

SEEDS few, one under each point of the silicle, roundish.

824. ISATIS. \* *Tournef.* 100. *Woad.*

CAL. *Perianth* four-leaved; the *leaflets* egg'd, rather expanded, coloured, deciduous.

COR. four-petal'd, cross-form. *Petals* oblong, obtuse, expanding, gradually attenuated into *claws*.

STAM. *Filaments* six, erect-expanding, the length of the corol: of these *two* are shorter. *Anthers* oblong, lateral.

PIST *Germ* oblong, two-edged, compress'd, the length of the shorter stamens. *Style* none. *Stigma* obtuse, headed.

PER. *Silicle* oblong, lanced, obtuse, compress'd, two-edged, one-celled, not gaping, two-valved, (the *valvelets* beated, compress'd, keel'd), deciduous.

SEED one, egg'd, within the center of the pericarp.

## 825. CRAM-

825. CRÁMBE. \* *Tournef.* 100. *Rapistrum Tournef.* 99. *Sea Cabbage.*

CAL. *Perianth* four-leaved; the *leaflets* egg'd, chanel'd, rather expanded, deciduous.

COR. four-petal'd, cross-form. *Petals* large, obtuse, broad, expanding; with *claws* erect-expanding, the length of the calyx.

STAM. *Filaments* six, two the length of the calyx; four longer, with a two-cleft top. *Anthers* simple, on the exterior branch of the filaments.

A *melliferous gland* on both sides within the corol and longer stamens.

PIST. *Germ* oblong. *Style* none. *Stigma* thickish.

PER. *Berry* dry, globular, one-cell'd, deciduous.

SEED one, roundish.

OBS. *The essential character consists in filaments two-cleft at the top.*

826. CLÉOME. \* *Sinapistrum Tournef.* 116. *False Mustard.*

CAL. *Perianth* four-leaved, very small, expanding; (the *inferior leaflet* more gaping), deciduous.

COR. four-petal'd. *Petals* all ascending, expanding; of which the *nearest intermediate ones* are less than the rest.

Three *nectary-bearing glands* roundish, one at each division of the calyx, except one.

STAM. *Filaments* six, (seldom 12 or 24), awl'd, declining. *Anthers* lateral, ascending.

PIST. *Style* simple. *Germ* oblong, declining, the length of the stamens. *Stigma* thickish, arising.

PER. *Siliqua* long, cylindric, sitting on the style, one-cell'd, two-valved.

SEEDS very numerous, roundish.

OBS. *In some species the germ is pedicel'd, and the stamens sit on a pedicel near the germ as in the class Feminine-Males. In some there are more stamens than six.*

CLASS

## CLASS XVI.

## ONE BROTHERHOOD.

(Monadélphia.)

OF ONE BROTHERHOOD the natural classic character.

CAL. *Perianth* always present, permanent, in most double.

COR. *Petals* five, inverse-hearted, one side of each embracing the nearest petal, contrary to the motion of the sun:

STAM. *Filaments* coalesced below, distinct above, the exterior ones shorter. *Anthers* incumbent.

PIST. *Receptacle of the fructification* prominent in the center of the flower. *Germes* erect, wheel-jointed, surrounding the top of the receptacle. *Styles* all coalesced below in one body with the receptacle, separated above into as many threads as there are germes. *Stigmas* expanding, slender.

PER. *Capsule* separated into as many cells, as pistils, of various forms in various plants; it often consist of the same number of connected arils.

SEEDS kidney-form.

OBS. *Tournefort* has assigned to this class a corol mostly one-petal'd; yet all the petals are distinct at the base, altho' cohering with the coalesced filaments in one body, hence it is more properly named five-petal'd.

The genera of this class were divided according to the fruit only, which is not sufficient: hence it seem'd necessary to most to have recourse to the leaves. We distinguish the genera by the calyx, which is of great consequence, and fixes absolute limits.

## ONE BROTHERHOOD.

*(Monadélphia.)*

## I. THREE MALES.

*(Triándria.)*

1410 Aphytéia.

Galáxia.

## II. FIVE MALES.

*(Pentándria.)*

1318 Lerchéa.

Hydnóra.

827 Walthéria.

1411 Symphónia.

828 Hermánnia.

829. Melóchia.

## III. EIGHT MALES.

*(Oktándria.)*

1412 Aytónia.

## IV. NINE MALES.

*(Enneándria.)*

Dryándria.

## V. TEN MALES.

*(Decandria.)*

830 Cómarus.

831 Hugónia.

832 Geránium.

## VI. ELEVEN MALES.

*(Endecandria.)*

833 Brownæa.

## VII. TWELVE MALES.

*(Docecandria.)*

834 Pentápetes.

## VIII. MANY MALES.

*(Polyandria.)*

1414 Guftávia.

836 Adanfónia.

1413 Barringtónia.

1415 Carolínea.

835 Bómbax.

837 Sída.

Solándria.

1266 Málachra.

839 Althæa.

840 Álcea.

841 Málva.

842 Lavatéra.

843 Málope.

844 Uréna.

845 Goffýpium.

846 Hibíscus.

847 Stewártia.

1344 Gordónia.

848 Caméllia.

665 Mésua.

642 Morifónia.

## I. THREE

## I. THREE MALES.

(Triandria.)

1410. APHYTÉIA. *Plant. apbyt. p. 7. Hydнора Thunb. Act. holm. am. 1775. p. 69. S.*

CAL. *Perianth* one-leaved, half-threecleft, funnel-form, large, erect, permanent.

COR. *Rudiments* of three petals, growing to the divisions of the calyx, or rather none.

STAM. *Filaments* three, conjoined above, short. *Anthers* convex, hearted, striated.

PIST. *Germ.* rather beneath. *Style* thickish, short. *Stigma* three-corner'd, channel'd.

PER. *Berry* one-cell'd, with tender pulp,

SEEDS numerous, nestling.

GALÁXIA. *Thunb. nov. gen. p. 50.*

CAL. *Spathe* one-valved, membranous, smooth, very slender, converging.

COR. one-petal'd, above. *Tube* thread-form, or capillary, long, erect, smooth, rather enlarged at top. *Border* six-parted. *Divisions* inverse-egg'd, obtuse, expanding; the three exterior ones with a nectary-bearing pit at their base.

STAM. *Germ* beneath, obtusely triangular, smooth. *Style* inserted in the center of the germ, thread-form; rather longer than the stamens. *Stigmas* three, threadform-manyparted, expanding.

PIST. - - -

PER. *Capsule* oblong, smooth, 3-valved, 3-cell'd, subcylindric, 3-furrow'd.

SEEDS very numerous, globular, very small.

## II. FIVE

## II. FIVE MALES.

(Pentandria.)

## 1318. LERCHEA. †

CAL. *Perianth* one-leaved, tubular, five-tooth'd, permanent.COR. one-petal'd, funnel-form. *Tube* longer than the calyx. *Border* five-parted, erectish.STAM. *Filaments* scarcely any, but the tube of the germ. *Anthers* five, oblong, fitting on the tube of the germ.PIST. *Germ* rather egg'd, above, terminated (within the corol) by an obtuse tube. *Style* within the tube of the germ, thread-form, the length of the stamens. *Stigmas* 2 or 3, obtusish.PER. *Capsule* subglobular, wreathed, three-cell'd, sometimes two-cell'd.

SEEDS very numerous.

HYDNORA. *Thunberg. nov. gen. p. 24.*

- CAL.** fleshy, subcolumnar, closed at first, then gaping at top; 3-sided at top before opening, somewhat dilated above the base; chinky without, with pubescent pits, reddish with elevated tubercles, which are, obtuse, brownish; divide above after opening into three borders, funnel-form below. *Divisions* of the border sublanched, obtuse, shorter by half than the fungus, divaricated with inflected tops, the external margins rather bent outwardly, the internal ones dilated, obliquely inflected, uniting at the base into three teeth with murex'd fringes; the *Fringes* imbricated like Hythum, white-carnation, the exterior ones longer, the interior gradually shorter.
- COR.** 3-petal'd, each *Petal* growing within the inflected margins of the border, heart-oblong, fleshy, snowy, inch.
- STAM.** *Filaments* 3, inserted into the middle of the tube of the calyx, broad, coalesced into one body, cover'd outwardly with anthers almost to the base; naked within, concave, white; quarter-inch. *Anthers* 3, hearted, striated, fleshy, smooth, white-carnation; conjoin'd at the base, free at top, obtuse, converging, the *Dust* very fine, sitting in the furrows of the anthers, white.
- PIST.** *Germ* beneath the stamens, convex, fleshy, smooth, white. *Style* very thick, very short, scarcely any. *Stigma* 3-corner'd, flat-convex, 3-furrow'd, with furrows going from the center to the angles, very slightly striated transversely, white.
- PER.** *Berry* included in the base of the fungus, fleshy, white, 3-corner'd, many-furrow'd.
- SEEDS** cylinder-egg'd, very numerous, the *immature* seeds vertical, filling almost the whole capsule, affix'd above, petioled, free beneath and at the sides; within horny, solid, fleshy, without beset with very small pellucid snowy globules. *Petioles* short, subfascicled, the *mature* seeds free, nestling in very tender pulp, minute, gradually becoming browner, smooth.

827. WALTHERIA. \* *Monospermalthæa Isnard.*  
A. G. 1721.

CAL. *Perianth* one-leaved, half-fivecleft, acute, cup-form, permanent.

COR. *Petals* five, inverse-hearted, expanding.

STAM. *Filaments* five, expanding, short. *Anthems* simple, distinct.

PIST *Germ* egg'd. *Style* thread-form, longer than the *stamens*.  
*Stigmas* pencil'd.

PER. *Capfule* inverse-egg'd, one-cell'd, two-valved.

SEED one, obtufe, broader above.

1411. SYMPHONIA. S.

CAL. *Perianth* five-leaved, permanent: the *leaflets* roundish, very small, expanding.

COR. Closed. *Petals* five, roundish, rather leathery, concave, contorted, converging in a depreff'd globe.

STAM. *Filaments* cylindric, sheathing the *style*. *Anthems* five, egg'd, acute, alternate with the *stigmas*.

PIST. *Germ*s egg'd. *Style* cylindric, rather longer than the corol.  
*Stigmas* five, oblong, acute, expanding.

PER. *Berry* five-cell'd, globular.

SEEDS solitary, subglobular, smooth, flatter within.

828. HER-

828. HERMANNIA. \* *Tournef.* 432. *Dill.*  
*elth.* 147.

CAL. *Perianth* one-leaved; five-cleft; roundish; inflated: (the *divisions* inflected), permanent.

COR. five-petal'd, spiral contrary to the sun: the *claws* the length of the calyx, increased on both sides by a membranelet, converging into a hooded nectary-bearing tube. *Border* expanding, broadish, obtuse.

STAM. *Filaments* five, broadish; very slightly coalesced beneath into one body. *Anthers* erect, pointed, converging.

PIST. *Germ* roundish, five-corner'd, five-angled. *Styles* five, thread-form, approximated, awl'd longer than the stamens. *Stigma* simple.

PER. *Capsule* roundish, five-corner'd, five-cell'd, gaping at the top.  
SEEDS very numerous, small.

829. MELOCHIA. \* *Dill.* *elth.* 176.

CAL. *Perianth* one-leaved, half-fivecleft: the *divisions* half-egg'd, acute, permanent.

COR. *Petals* five, inverse-hearted, expanding, large.

STAM. The Tube of the *Filament* involving the germ. *Anthers* five, simple.

PIST. *Germ* roundish. *Styles* five, awl'd, erect, the length of the stamens, permanent. *Stigmas* simple.

PER. *Capsule* roundish, five-angled, five-cell'd: the *cells* gaping with two horned beaks.

SEEDS solitary, roundish on one side, angle-compress'd on the other.

III. EIGHT

## III. EIGHT MALES.

(Oetandria.)

1412. AYTÓNIA. S. Thunb. nov. gen. p. 52.

CAL. *Perianth* one-leaved, erect, much shorter than the corol, four-parted: the *divisions* egg'd, acute.COR. *Petals* four, erect, equal, broad-egg'd, convex, very obtuseSTAM. *Filaments* eight, coalesced to the middle, free above, linear'd, furrow'd, longer than the corol, protruded. *Anthers* egg'd, furrow'd.PIST. *Germ* above, egg'd, smooth, subangular. *Style* thread-form, the length of the stamens. *Stigma* obtuse, undivided.PER. egg'd, juiceless, membranous, four-angled, one-cell'd, fragile, inflected. *Angles* produced, acute

SEEDS affixed to a column, globular, smooth, solitary.

## IV. NINE MALES.

(Enneandria.)

DRYÁNDRA. Thunberg. Flor. Japon. p. 13.

CAL. *Perianth* two-leaved: the *divisions* egg'd, acute, shorter than the corol.COR. five-petal'd, yellow. *Petals* inverse-egg-oblong, reflex-expanding, half-inch.STAM. *Filaments* nine, coalesced beneath into one body, unequal, shorter by half than the corol. *Anthers* minute.

PIST. none was present in the male flowers in the whole penicle, whence I conjecture the flowers to be of the class two-house.

PER. - - -  
SEED - - -

G g

V. TEN

## V. TEN MALES.

(Decándria.)

## 830. CONNARUS.

CAL. *Perianth* one-leaved, five-parted, erect, downy, permanent.COR. *Petals* five, lanced, erect, equal.STAM. *Filaments* ten, awl'd, erect, connected at the base : with alternate ones the length of the flower ; other alternate ones very short. *Anthers* roundish.PIST. *Germ* roundish. *Style* cylindric. *Stigma* obtuse.PER. *Capsule* oblong, gibbous, one-cell'd, two-valved.

SEED one, egg'd, large.

## 831. HUGÓNIA.

CAL. *Perianth* five-leaved : the *leaflets* egg'd, concave, leathery, permanent.COR. *Petals* five, roundish, large, expanding.STAM. *Filaments* ten, awl'd, shorter than the corol, conjoined from the base to the middle in a pitcher. *Anthers* twin.PIST. *Germ* roundish. *Styles* five, capillary. *Stigmas* headed.PER. *Drupe* globular, one-cell'd.SEED *Nut* striated, globular.

## 832. GE-

832. GERANIUM. \* *Tournef.* 142. *Crain's bill.*

CAL. *Perianth* five-leaved: the *leaflets* egg'd, acute, concave, permanent.

COR. *Petals* five, inverse-hearted, or egg'd, expanding, large.

STAM. *Filaments* ten, awl'd, expanding at the top, the *alternate* ones longer, shorter than the corol. *Anthers* oblong, versatile.

PIST. *Germ* five-angled, beaked. *Style* awl'd, longer than the *stamens*, permanent. *Stigmas* five, reflected.

PER. none. *Fruit* five-grain'd, beak'd.

SEEDS solitary, kidney-form, often aril'd, with an awn very long at last spiral.

Obs. *Geranium Riv. has an irregular corol.*

*Gruinalis Riv. has an equal corol, and filaments scarcely manifestly coalesced.*

*G. africana (african) commonly have their calyxes one-leaved, tubular at the base. Petals unequal. Stamens with filaments conjoin'd, and only seven Anthers. Seeds naked with a feather'd awn. Flowers umbel'd.*

*G. cicutaria have their flowers umbel'd. Calyxes five-leaved. Corols subunequal. Petals separated by a gland. Filaments of the stamens ten, but the alternate ones only anther-bearing. Seeds naked with an hairy awn.*

*G. columbina have their flowers in pairs or solitary. Calyxes five-leaved. Petals regular, divided by a gland; Stamens ten, distinct anther-bearing; Seeds aril'd, with a polish'd awn.*

## VI. ELEVEN MALES. (*Endecandria.*)

### 833. BROWNÉA. *Jacq. amer.* 194. *Harmefias Læfl.*

CAL. *Perianth* one-leaved, top-shape, unequally two-cleft, acute.

COR. *Exterior* one-petal'd, funnel-form : *Border* five-cleft : the *divisions* oblong, concave, obtuse, erect.

*Interior one* five-petal'd : *Petals* inverse-egg'd, flat, obtuse, spreading, sitting on the tube of the exterior corol. *Claws* long.

STAM. *Filaments* ten, awl'd, (the alternate ones shorter), adjoined to the tube of the exterior corol, coalesced into a cylinder divided above. *Anthers* oblong, incumbent.

PIST. *Germ* oblong, acute, sitting on the pedicel adjoined to the sides of the exterior corol. *Style* awl'd, erect, surpassing the corol. *Stigma* obtuse.

PER. *Legume* one-cell'd.

SEED - - -

OBS. The Stamens are naturally eleven and the calyx five-cleft. *Syst. Veg.* 516. R.

## VII. TWELVE MALES. (*Dodecandria.*)

### 834. PENTAPETES. \* *Pterospermadendron Amm.* *A. Ptr. Five-leaf.*

CAL. *Perianth* five-parted : the *leaflets* leathery oblong, reflected.

COR. *Petals* five, oblong, expanding.

STAM. *Filaments* fifteen, linear, conjoin'd at the base into a tube. *Filaments* five, longer, castrated, colour'd, erectish, the length of the corol, one between every three fertile stamens. *Anthers* oblong, erect.

PIST. *Germ* roundish. *Style* cylindric, the length of the stamens. *Stigma* thickish.

PER. *Capsule* woody, egg'd, five-cell'd, with two-valved cells.

SEEDS many, oblong, compress'd, with a membranous wing.

## VIII. MANY

## VIII. MANY MALES.

(Polyandria.)

1414. GUSTÁVIA. *Plant. Surinam. p. 18.* Pingara  
*Aublet-guin. S.*

CAL. none, but the *Receptacle* girt with a margin above, flat, broad, bald.

COR. *Petals* six or eight, slightly connected at the base, egg'd, sessile, large.

STAM. *Filaments* very numerous, shorter than the *Petals*, conjoined at the base into an erect bell, distant from the style. *Anthers* small, oblong, erect, shorter by half than the petals.

PIST. *Germ* top-shape, beneath, flat, bald between the petals and the style. *Style* conic, very short, permanent. *Stigma* obtuse.

PER. *Berry* subglobular, subconic, lop'd, six-cell'd, crown'd with the margin of the receptacle.

SEEDS *Beans* many, oval, polish'd, mutilated on one side at the base: with a cartilaginous contorted appendage.

836. ADANSÓNIA. *the character by D. Adanson.*  
*Ethiopian Sour-gourd.*

CAL. *Perianth* one-leaved, half-fivecleft, cup-form: (the *divisions* revolute), deciduous.

COR. *Petals* five, roundish, nerved, revolute, growing reciprocally with the claws and stamens.

STAM. *Filaments* numerous, coalesced beneath into a tube, and crowning it, expanding horizontally. *Anthers* kidney-form, incumbent.

PIST. *Germ* egg'd. *Style* very long, tubular, variously intorted. *Stigmas* many, (10) prismatic, villous, ray-expanded.

PER. *Capsule* oval, woody, not gaping, ten-cell'd, with farinaceous pulp, the partitions membranous.

SEEDS numerous, kidney-form, rather bony, involved in a friable pulp.

1413. BARRINGTONIA. *Forst. gen. n. 38.* S.

CAL. *Perianth* two-leaved, above: the *leaflets* roundish, concave, leathery, permanent, inch, spreading.

COR. *Petals* four, egg'd, equal, expanding, leathery, thrice as large as the calyx.

*Nectary* one-leaved, tubular, conic, surrounding the base of the style, rather leathery, (as if from the conjoin'd rudiments of filaments) toothletted at the top: the *toothlets* many, awl'd, unequal, converging.

STAM. *Filaments* very numerous, one-brotherhood or coalesced at the bottom of the base into a cylinder standing on the receptacle, awl'd, twice as long as the petals. *Anthers* roundish, with a channel'd margin, gaping,

PIST. *Germ* top-shape, beneath, four-cell'd. *Style* thread-form, straight, longer than the stamens. *Stigma* simple, depress'd.

PER. *Drupe* large, single, four-angled, or pyramidal, crown'd with a permanent style and calyx. *Pulp* hard, wood-fleshy.

SEED *Nut* bony, egg'd, obscurely four-angled, wrinkled without, fibrous, properly four-cell'd, but mostly one-cell'd. *Nucleus* egg'd, solitary, wrinkled.

1415. CAROLÍNEA. *Pachisa. Aublet guin.* S.

CAL. *Perianth* one-leaved, bell'd, lop'd, most intire, very short, deciduous.

COR. *Petals* five, sword-form, very long, erectish.

STAM. one-brotherhood. *Filaments* very numerous, connected at the base, thread-form, very long. *Anthers* oblongish, erect.

PIST. *Germ* beneath, oblong, cylindric. *Style* thread-form, the length of the stamens. *Stigma* simple.

PER. *Pome* egg'd, five-furrow'd; two-cell'd.

SEEDS double, one above another, egg'd, gibbous, flattish within.

835. BOMBAX. *Jacq. amer.* 191. *Xylon edit. pri.*  
*Ceiba Plum.* 32. *Silk Cotton-tree.*

CAL. *Perianth* one-leaved, bell'd, permanent: the mouth five-cleft, erect.

COR. five-parted, expanding, with egg-concave segments.

STAM. *Filaments* five or many, awl'd, the length of the corol, conjoin'd at the base. *Anthers* oblong, incurvate, incumbent.

PIST. *Germ* roundish. *Style* thread-form, the length of the stamens. *Stigma* headed.

PER. *Capsule* large, oblong top-shape, five-cell'd, five-valved, with woody valvelets.

SEEDS very numerous, round, woolly. *Receptacle* columnar, five-corner'd, constituting the partitions.

OBS. B. pentandrum (*five-male*) has the corol five-petal'd, stamens five. *Ceiba* and *heptaphyllum* (*seven-leaved*) has the corol funnel-form, one-petal'd, five-cleft, and many stamens.

837. SIDA. \* *Maluinda Dill.elth.* 171. 172. *Abutilon Dill. elth.* 2. 5. 6. *Tournef.* 25. *Sida-Mallow.*

CAL. *Perianth* half-fivecleft, angular, permanent.

COR. *Petals* five, broader above, end-nick'd, coalesced below.

STAM. *Filaments* numerous, coalesced below into a tube, free above. *Anthers* roundish.

PIST. *Germ* orbicular. *Style* half-many cleft, short. *Stigmas* headed.

PER. *Capsule* roundish, pointed, with cells conjoined, the cells gaping as they recede, horned.

SEEDS roundish, pointed, convex on one side, angular on the other.

OBS. *Maluinda D.* has capsules five, seeds solitary.

*Abutilon T. D.* has more capsules and often many seeds.

1266. MĀLACHRA. *Emollient.*

CAL. *Common Perianth* mostly five-flower'd, three or five-leaved, large: the *leaflets* hearted, acute, permanent: *Chaff* bristly, interposed double between the proper perianths, and longer than them.

*Proper Perianth* one-leaved, bell'd, five-cleft, small, permanent.

COR. *Proper.* *Petals* five, inverse-egg'd, intire.

STAM. *Filaments* many, capillary, conjoined below into a cylinder. *Anthems* rather kidney-form.

PIST. *Germ* orbicular. *Style* cylindric, five-cleft. *Stigmas* obtuse.

PER. none. *Arils* five.

SEEDS five, roundish, thence angular.

839. ALTHÆA. \* *Marsh-Mallow.*

CAL. *Perianth* double: the *exterior* one-leaved, unequally nine-cleft, with very narrow *divisions*, less, permanent. The *interior one* one-leaved, half-fivecleft: the *divisions* broader, acuter, permanent.

COR. *Petals* five, coalesced at the base, inverse-hearted, end-bitten, flat.

STAM. *Filaments* numerous, coalesced below into a cylinder, loose above, inserted into the corol. *Anthems* nearly kidney-form.

PIST. *Germ* orbicular. *Style* cylindric, short, *Stigmas* numerous, (twenty) bristly, the length of the style.

PER. *Arils* very numerous, unjointed in a depress'd verticil about the columnar *Receptacle*, deciduous, gaping inwardly.

SEEDS solitary, kidneyform-compress'd.

840. *ÁLCEA*. \* *Malva Tournef.* 24. *Holly-bock.*  
*Rose-Mallow.*

CAL. *Perianth* double.

The *exterior* one-leaved, six-cleft, more expanding, permanent.

The *interior* one-leaved, half-fivecleft, larger, permanent.

COR. *Petal's* five, coalesced at the base, inverse-hearted, end-nick'd, expanding.

STAM. *Filaments* numerous, coalesced below into a five-corner'd cylinder, loose above, inserted into the corol. *Anthers* nearly kidney-form.

PIST. *Germ* orbicular. *Style* cylindric, short. *Stigmas* numerous, (20), bristly, the length of the style.

PER. *Arils* many, jointed in a verticil, about a columnar depressed *Receptacle*, disparting, gaping inwardly.

SEEDS solitary, kidneyform-compress'd.

841. *MÁLVA*. \* *Tournef.* *Alcea Tournef.* *Abutilon*  
*Dill. elth.* 1. 4. *Mallow.*

CAL. *Perianth* double.

The *exterior* three-leaved, narrow : the *leaflets* hearted, acute, permanent.

The *interior* one-leaved, half-fivecleft, larger, broader, permanent.

COR. *Petals* five, coalesced at the base, inverse-hearted, end-bitten, flat.

STAM. *Filaments* numerous, coalesced below into a cylinder, loose above, inserted into the corol. *Anthers* kidney-form.

PIST. *Germ* orbicular. *Style* cylindric, short. *Stigmas* very numerous, bristly, the length of the style.

PER. *Arils* very numerous, unjointed in a depress'd verticil about the columnar *Receptacle*, deciduous, gaping inward.

SEEDS solitary, kidney-form.

OBS. Of *Malva T.* the leaves are nearly intire, not villous.

Of *Alcea T.* the leaves are many-cleft, not villous.

842. LAVATÉRA. \* *Tournef. A. G. 1706. t. 3.*  
*Dill. gen. 10.*

**CAL.** *Perianth* double.

The *exterior* one-leaved, three-cleft, obtuse, shorter, permanent.

The *interior* one-leaved, half-fivecleft, acuter, erecter, permanent.

**COR.** *Petals* five, coalesced at the base, inverse-hearted, flat, expanding.

**STAM.** *Filaments* numerous, coalesced below into a cylinder, loose above, inserted into the corol. *Anthers* kidney-form.

**PIST.** *Germ* orbicular. *Style* cylindric, short. *Stigmas* many (7 to 14), bristly, the length of the style.

**PER.** *Arils* very numerous, unjointed in a depress'd verticil about the columnar *Receptacle*, deciduous, gaping inward.

**SEEDS** solitary, kidney-form.

**OBS.** Of *Althea* sp. T. the fruit comes forth without a cover.

Of *Lavatera* T. the fruit is concealed by an obtuse cover.

843. MÁLOPE. *Malacoides Tournef. 25. False-Mallow.*

**CAL.** *Perianth* double.

The *exterior* three-leaved, broader; the *leaflets* hearted, acute, permanent.

The *interior* one-leaved, half-fivecleft, more erect, permanent.

**COR.** *Petals* five, coalesced at the base, inverse-hearted, end-bitten, expanding.

**STAM.** *Filaments* numerous, coalesced below into a cylinder, loose above. *Anthers* nearly kidney-form.

**PIST.** *Germ*s roundish. *Style* simple, the length of the stamens. *Stigmas* many, simple, bristly.

**PER.** *Arils* very numerous, roundish, conglomerated into a head.

**SEEDS** solitary, kidney-form.

844. URÉNA. \* *Dill. elth. 319. Indian Mallow.*CAL. *Perianth* double.The *exterior* one-leaved, five-cleft: the *divisions* broader.The *interior* five-leaved: the *leaflets* narrow, angular, permanent.COR. *Petals* five, oblong, broader at the top, obtuse with a point, narrower at the base, conjoined.STAM. *Filaments* very numerous, coalesced below into a cylinder, free above. *Anthers* roundish.PIST. *Germ* roundish, five-cornered. *Style* simple, the length of the *stamens*. *Stigmas* ten, headed, hairy, reflected.PER. *Capsule* roundish, hedgehog'd, five-angled, five-cell'd, resolvable into five closed *Arils*.

SEEDS solitary, roundish, thence angle-compress'd.

845. GOSSÝPIUM. \* *Xylon Tournef. 27. Cotton.*CAL. *Perianth* double.The *exterior* one-leaved, three-cleft, flat, larger.The *interior* one-leaved, obtusely five-ways end-nick'd, cup-form.COR. *Petals* five, coalesced at the base, inverse-hearted, flat, expanding.STAM. *Filaments* numerous, coalesced below into a cylinder, loose above, inserted into the corol. *Anthers* kidney-form.PIST. *Germ* roundish. *Style* columnar, the length of the *stamens*. *Stigmas* four, thickish.PER. *Capsule* roundish, pointed, 3 or 4-cell'd, 3 or 4-valved.

SEEDS numerous, oval, involved in wool.

846. HI-

846. HIBISCUS. \* *Malvaviscus* Dill. *elth.* 170.  
*Tournef.* 26. *Althæa frutex*,  
 or *Sirian Mallow*.

CAL. *Perianth* double:

The *exterior* many-leaved: the *leaflets* linear, permanent.

The *interior* many-leaved, half-fivecleft, cup-form, acute, permanent.

COR. *Petals* five, inverse-hearted, prominent with one larger at the top, coalesced at the base.

STAM. *Filaments* very numerous, coalesced below into a tube, free at the tops. *Anthers* kidney-form.

PIST. *Germ* roundish. *Style* thread-form, longer than the stamens, five-cleft above. *Stigmas* headed.

PER. *Capsule* five-cell'd, five-valved.

SEEDS kidney-form.

OBS. Of *Ketmia* T. The *Capsule* is egg'd, five-cell'd (or above); *Seeds* copious.

Of *Malvaviscus* D. The *berry* is globular, five-cell'd; *Seeds* solitary.

*H. populneus* (poplar) and *tiliaceus* (lime) are singular in an exterior one-leaved calyx.

*Capsule* in some is egg'd, in others long; the exterior calyx 5-12-leaved.

847. STEWARTIA. \* *Is. Lawson.* *Malachodendron.*  
*Mich.* 16.

CAL. *Perianth* one-leaved, five-parted, expanding: the *divisions* egg'd, concave, permanent.

COR. *Petals* five, inverse-egg'd, expanding, equal, large.

STAM. *Filaments* numerous, thread-form, coalesced below into a cylinder, shorter than the corol, connecting the petals at the base. *Anthers* roundish, incumbent.

PIST. *Germ* roundish, shaggy. *Style* simple, thread-form, the length of the stamens. *Stigmas* five-cleft.

PER. *Pome* juiceless, five-lobed, five-cell'd, resolvable into five closed parts.

SEEDS solitary, egg'd, compress'd.

## 1344. GORDONIA.

- CAL. *Perianth* five-leaved : the *leaflets* roundish, concave, permanent.  
 COR. *Petals* five, inverse-egg'd, concave, large, united at the base.  
 STAM. *Filaments* numerous, thread-form, coalesced at the base into an obtuse body. *Anthers* oval, erect.  
 PIST. *Germ* egg'd. *Style* short, five-corner'd. *Stigmas* five, acute, horizontal.  
 PER. *Capsule* egg'd, acute, five-cell'd, (with cells half two-lobed), five-valved.  
 SEEDS two, with a leafy wing on one side.

## 848. CAMELLIA.

- CAL. *Perianth* many-leaved, roundish, imbricated : the *scales* roundish, most obtuse, the internal ones gradually larger, concave, deciduous.  
 COR. *Petals* five, inverse-egg'd, coalesced at the base.  
 STAM. *Filaments* numerous, erect, coalesced below into a crown more ample than the style, free above, shorter than the corol. *Anthers* simple.  
 PIST. *Germ* roundish. *Style* awl'd, the length of the stamens. *Stigma* acute, reflected.  
 PER. *Capsule* top-shape, woody, ploughed with some furrows.  
 SEEDS As many Nucleuses as strias of the capsule, roundish, often replete with less seeds.

665. MÉSUA. \* *Indian rose-chesnut.*

CAL. *Perianth* four-leaved: the *leaflets* egg'd, concave, obtuse, permanent: the opposite ones less.

COR. *Petals* four, retuse, undulated.

STAM. *Filaments* numerous, capillary, the length of the corol, conjoined into a pitcher at the base. *Anthers* egg'd.

PIST. *Germ* roundish. *Style* cylindric. *Stigma* thickish, concave.

PER. A Nut roundish, pointed, marked with four elevated longitudinal futures.

SEED one, roundish.

642. MORISONIA. *Plum.* 23. *Jacq. amer.* 156.

CAL. *Perianth* one-leaved, bellied, breaking off, two-cleft, expanding in the mouth, obtuse, withering.

COR. *Petals* four, obtuse, oblongish.

STAM. *Filaments* numerous, awl'd, shorter than the corol, conjoined at the base into a funnel. *Anthers* oblong, erect.

PIST. *Germ* pedicel'd, egg'd. *Style* none. *Stigma* headed, flat-convex, navel'd with a dot.

PER. *Berry* globular, with an hard smooth bark, one-cell'd, pedicel'd.

SEEDS many, kidney-form, nestling.

CLASS

## CLASS XVII.

## TWO BROTHERHOODS.

*The papilionaceous flowers of Tournef; the irregular four-petal'd ones of Riv; the leguminous plants of Ray.*

The CAL. *Perianth* one-leaved, bell'd, withering; gibbous at the base, annexed below to a peduncle, obtuse above, melliferous; the mouth five-tooth'd, acute, erect, oblique, unequal: the lowest odd toothlet longer; the highest pair shorter, more remote; the bottom moist with an honey'd liquor, including the receptacle.

The COR. called *Papilionaceous*, unequal: each *Petal* distinguished by a separate name.

The *Banner*: A *Petal* covering the rest, incumbent, larger, flat-horizontal, inserted by a claw into the superior margin of the receptacle, approaching on the outside of the calyx to a roundish figure, nearly intire, with a longitudinal line, especially towards the top, elevated, as if it had been a petal depress'd at the sides. Part of the petal nearest the base approaching to a semicylindric form embraces those beneath it: the Border of the petal is depress'd on both sides, but the sides next the margin are reflected upwards, where the halved tube ends; at the unfolding of the halved border, there are two concave impressions from the back, prominent underneath, which compress the subjacent wings.

The *Wings*: Petals two, equal, one at each side of the flower, placed under the banner, incumbent on the margin, parallel, oblong-roundish, broader outward, with the superior margin straighter, the inferior more dilated towards rotundity; the base is two-cleft in each, whose inferior part is produced into a claw, inserted into the side of the receptacle, about the length of the calyx; but the superior part is shorter and inflected.

The *Keel*: The lowest *Petal* oftner two-parted, placed under the banner between the wings, boat-form, concave, compress'd on the sides, in the situation of a swimming boat, mutilated at the base, whose inferior part is extended into a claw, the length of the calyx, inserted into the receptacle: but the lateral and superior shorter divisions are interwoven with the corresponding part of the wings. The sides of the keel assume a form consimilar to the wings, and in a situation nearly equal, altho' lower and more inwards. The Keel-line of this petal is

extended straight to the middle, thence it gradually ascends to the segment of the circle; but the marginal line runs straight to the top, where it melts obtusely into the keel-line.

The STAMENS are called two-brotherhoods: the *Filaments* are two, not uniform: the inferior one involving the pistil; the *superior one* incumbent on the pistil.

The *inferior* Filament sheathing the germ; membranous below the middle, cylindric, gaping upwards longitudinally, thence it ends in nine awl'd parts, which imitate the length and flexure of the keel of the corol itself, and of which the intermediate or inferior rays are longer by alternate pairs.

The *superior* Filament is awl-bristled, covering the cleft of the former cylindric filament, incumbent, correspondent in situation, simple, and being shorter by degrees, gapes at its own base from the rest, and furnishes on both sides an outlet to the honey.

The *Anthers* number'd together are ten: *one* on the superior filament; and *nine* (one anther sitting on each ray of the inferior filament) on the inferior one; all of them small, equal in magnitude, terminal.

The PISTIL one, above.

The *Germ* is oblong, columnarish, slightly compress'd, straight, the length of the cylinder of the inferior filament, in which it is involved.

The *Style* is awl-thread-form, ascending, the length and situation of the rays of the filament, among which it is placed, withering.

The *Stigma* is pubescent, from the part turned upwards, immediately beneath the *Anthers*.

The PERICARP. A *Legume* oblong, compress'd, obtuse, two-valved, with a longitudinal suture existing above and below, both straight, yet the superior one descending near the base, and the inferior ascending near the top; gaping at last in the superior suture.

The SEEDS few, roundish, smooth, fleshy, pendulous, mark'd with a rather prominent embryo near the hile: the cotyledons preserve after the exclusion of the young plant the form of the halved seed.

The *Receptacles*. The *proper seminal Receptacles* are very minute, very short, attenuated at the base; and where they adhere to the disk, obtuse, oblong, inserted longitudinally into the suture, (of the superior legume only) in an alternate situation; that, when the valvelets are separated, the alternate seeds adhere to each valvelet.

It may be OBSERVED that

*This Class is perfectly natural, and the structure of the flower very singular.*

*The common situation of the flowers is obliquely pendulous, at an acute angle with the perpendicular line.*

*The form of the Legume is not of such consequence, as some systematic writers pretend, nor is therefore so absolutely to be depended on in distinguishing the Genera, as it has hitherto been. But the Calyx though commonly esteemed of no importance, is of great consequence in the generic distinctions. The Leaves should never be admitted in forming the characters.*

## TWO BROTHERHOODS.

*(Diadélphia.)*

## I. FIVE MALES.

*(Pentándria.)*

850 Monniéria.

## II. SIX MALES.

*(Hexándria.)*

1267 Saráca.

849 Fumária.

## III. EIGHT MALES.

*(Octándria.)*

851 Polýgala.

852 Secúridáca.

1416 Dalbérgia.

## IV. TEN MALES.

*(Decándria.)*

853 Nissólia.

1286 Ábrus.

854 Pterocárpus.

855 Erythrína.

856 Piscídia.

857 Borbónia.

858 Spártium.

859 Genísta.

860 Aspálathus.

881 Úlex.

861 Amórpha.

862 Crotalária.

863 Onónis.

864 Anthýllis.

876 Árachis.

895 Ébenus.

865 Lupínus.

866 Phaséolus.

867 Dólichos.

868 Glycine.

869 Clitória.

870 Písum.

871 Órobus.

872 Láthyrus.

873 Vícia.

874 Érvum.

875 Cícer.

1319 Lipária.

876 Cýtisus.

1417 Mulléra.

878 Geoffræa.

879 Robínia.

880 Colútea.

882 Gly-

882	Glycyrrhíza.	891	Pháca.
883	Coronílla.	892	Astrágalus.
884	Ornithopus.	893	Biférrula.
885	Hippocrépis.	894	Pforálea.
886	Scorpiúrus.	896	Trifólium.
888	Æschynómene.	897	Lótus.
887	Hedýsarum.	898	Trigonélla.
889	Indigófera.	899	Medicágo.
890	Galéga.		

## I. FIVE MALES.

(Pentándria.)

850. MONNIÉRIA. *Loeffl. it.* 179.

CAL. *Perianth* five-parted, permanent: the superior *division* linear, long, incurved, covering the corol; the exterior one lanced, shorter by half; the rest obtuse, short.

COR. Tubular, grinning. *Tube* cylindric, more contracted in the middle, curved. *Border* two-lip'd. *Upper lip* undivided, obtuse, egg'd. *Under lip* four-cleft, straight, with oblong, obtuse *divisions*.

*Nectary* an egg'd scalelet at the base of the germ beneath the inferior base.

STAM. *Filaments* two, flat, membranous: the superior one concave, two-cleft at the top: the inferior flat, three-cleft. *Anthers* of the superior filament two, conjoin'd, shaggy within, including the stigma, on the inferior filament three, columnar, most minute.

PIST. *Germ* roundish, five-angled, five-lobed. *Style* solitary, thread-form. *Stigma* headed, oblong, flat within, orbicular with an acute margin.

PER. *Capsules* five, egg'd, compress'd, half two-valved with a future.

SEEDS solitary, egg'd, (the interior margin straighter, more obtuse), included in a two-valved, dry, deciduous *Aril*.

## II. SIX MALES.

(Hexándria.)

## 1267. SARACA.

CAL. none.

COR. one-petal'd, funnel-form. *Border* four-parted: the *divisions* egg'd, expanding; the superior one more remote: the *Throat* with an elevated margin.

STAM. *Filaments* six, bristly, declining, fitting on the throat; three from each side, conjoined at the base amongst themselves. *Anthers* furnished with a heel.

PIST. *Germ* pedicel'd, oblong, compress'd, the length of the stamens. *Style* awl'd, declining, the length of the germ. *Stigma* obtuse.

PER. Legume?

SEED - - -

849. FU-

849. FUMÁRIA. \* *Tournef.* 239. *Capnoides Tournef.* 237. *Cysticapnos Boerb.* 1. 310. *Corydalis Dill. gen.* 7. *Bicucullata Jus. A. G.* 1733. *Fumitory.*

CAL. *Perianth* two-leaved: the *leaflets* opposite, equal, lateral, erect, acute, small, deciduous.

COR. oblong, tubular, grinning, with a prominent palate, closing the throat.

*Upper lip* flat, obtuse, end-nick'd, reflected. (*The Banner.*)

The *Nectary* is the base of the upper lip prominent behind, obtuse.

*Under lip* quite similar to the upper, keel'd towards the base. (*The Keel.*)

The *Nectary* is the keel'd base, although in this less prominent.

*Throat* four-cornered, obtuse, perpendicularly two-cleft. (*The Wings.*)

STAM. *Filaments* two, equal, broad, one within each lip, included, pointed. *Anthers* three on each filament, terminal.

PIST. *Germ* oblong, compress'd, pointed. *Style* short. *Stigma* orbicular, erect, compress'd.

PER. *Silicle* one-cell'd.

SEED - - -

OBS. The *Stamens* in this genus are almost alone. observed to be constant.

Of *Fumaria Off. (officinal)* The *Silicle* is roundish, often one-seeded, deciduous.

Of *Pseudo-fumaria (Mock-fumitory) Riv.* The *Silicle* is egg-pointed, two-valved, with a receptacle like a thread placed on both sides the sutures.

*Capnoides T.* the *Silicle* is very long, nearly cylindric, two-valved, with a receptacle like a thread, placed on both sides the sutures.

*Cysticapnos B.* the *Pericarp* is three-valved, concealed within a very large inflated calyx.

*Capnorchis B.* the *Nectary* of the under lip is as prominent as that of the upper one.

*Fumar. lutea (yellow)* has a columnar siliqua.

## III. EIGHT MALES.

(O&amp;ándria.)

851. POLÝGALA. † *Tournef.* 79. *Chamæbuxus*  
*Tournef. A. G.* 1705. *Polyga-*  
*loides Dill. gen.* 9. *Penæa Plum.*  
 25. *Heisteria edit. prior.* (*Much-*  
*milk*) *Milk-wort.*

CAL. *Perianth* three-leaved, small: the *leaflets* egg'd, acute: two  
 beneath the corol, one above it, permanent.

COR. Of a papilionaceous figure, with an indeterminate number of  
 Petals.

*Wings* rather egg'd, flat, very large, placed without the other  
 parts of the corol, made from the teeth of the calyx, perma-  
 nent.

*Banner* nearly cylindric, tubular, short: (with a small reflected  
 mouth), two-cleft.

*Keel* concave, compress'd, bellied towards the top.

*Appendage: Corpuscles of the Keel* (in most), two, three-parted,  
 pencil-form, affixed to the keel towards the top.

STAM. *Filaments* two-brotherhood (eight-conjoined) included in the  
 keel. *Anthers* eight, simple.

PIST. *Germ* oblong. *Style* simple, erect. *Stigma* terminal, thickish,  
 two-cleft.

PER. *Capsule* inverse-hearted, compress'd with an acute margin, two-  
 cell'd, two-valved, (the partition contrary to the valves),  
 gaping at the margin on both sides.

SEEDS solitary, egg'd.

OBS. *The Appendage of the keel is different in different flowers, and in*  
*many the pencil-form appendage is wanting, whence they are call'd*  
*beardless.*

*The Wings are now taken for the middle, wing-form, coloured*  
*leaflets of the calyx, so that the calyx is five-leaved.* *Syst. Veg. R.*

852. SECURIDACA. † *Jacq. amer.* 197.

CAL. *Perianth* three-leaved, small, deciduous; the *leaflets* egg'd, coloured, of which the highest regards the banner, two the keel.

COR. papilionaceous, five-petal'd.  
*Wings* most expanding, most obtuse,  
*Banner* two-leaved, oblong, straight, conjoin'd to the keel at the base, with reflected tops.  
*Keel* the length of the wings, subcylindric, the border broader, augmented with a plaited obtuse appendage.

STAM. *Filaments* eight, conjoined below. *Anthers* oblong, erect.

PIST. *Germ* egg'd, ending in an awl'd *Style*. *Stigma* flat, broader, with a tooth'd top.

PER. *Legume* egg'd, one-cell'd, ending in a tongued wing.

SEED one, oblong.

OBS. Hence its affinity to *Polygala* is evident.

1416. DALBÉRGIA. S.

CAL. *Perianth* one-leaved, bell'd, five-tooth'd; the *teeth* obtusish.

COR. Papilionaceous.  
*Banner* larger, ascending, heart-egg'd, end-nick-retuse: the *claws* linear.  
*Wings* oblong, straight, obtuse, with a reverted tooth above.  
*Keel* scarcely shorter than the wings, two-parted at the base, straight, obtuse.

STAM. *Filaments* two, lateral, equal, ascending, divided at the top into four filaments, hence eight stamens. *Anthers* globular, twin.

PIST. *Germ* pedicel'd, compress'd, oblong, straight, smooth. *Style* ascending or reflected, deciduous. *Stigma* headed.

PER. The *Fruit* is a tongue pedicel'd, slender, subcartilaginous, flat-compress'd, egg'd, or oblong, not gaping, cells, in which one seed or more is placed.

SEED one or more, remote, inserted in the middle of the membrane, compress'd.

## IV. TEN MALES.

(Decandria.)

## 853. NISSÓLIA. Jacq. amer. 198. f. 44.

CAL. *Perianth* one-leaved, bell'd, five-tooth'd: the superior teeth deeper.

COR. papilionaceous.

*Banner* roundish, rather end-nick'd, reflected, with reflected fides.

*Wings* oblong, obtuse, erect, broader upwards, expanding before.

*Keel* closed, the figure of the wings.

STAM. *Filaments* ten, coalesced into a cylinder, gash'd above. *Anther* roundish.

PIST. *Germ* oblong, compress'd. *Style* awl'd, ascending in a right angle. *Stigma* head-obtuse.

PER. *Capsule* oblong, columnar, running into a tongued wing.

SEED often one, oblong, columnar, obtuse.

## 1286. ABRUS.

CAL. obscurely four-lobed: the superior one broader.

STAM. *Filaments* nine, conjoined at the lowest base, gaping on the back.

PIST. *Stigma* obtuse.

SEED spherical.

OBS. *The size and appearance shew it to be a plant of a distinct genus, to which may be added its very beautiful and very deleterious seeds. Syst. Veg. 533.*

*Concerning the rest of the character of this genus I find nothing. R.*

854. PTEROCÁRPUS. *authore Loefflingio Jacq. amer.*  
283. *Wing-fruit.*

CAL. *Perianth* one-leaved, tube-bell'd, five-tooth'd, with acute teeth.

COR. papilionaceous.

*Banner* with an oblong claw, rather round-hearted, expanding, convex.

*Wings* lanced, shorter than the banner.

*Keel* short.

STAM. *Filaments* ten, coalesced? *Anthers* roundish.

PIST. *Germ* pedicel'd, oblong, compress'd. *Style* awl'd. *Stigma* simple.

PER. *Legume* rather round-sickled, flat-leafy, dilated with veined sides, woody within, not gaping: with cells placed longitudinally within.

SEEDS solitary, kidney-form, thicker at the base, appendaged at the top.

OBS. *Whether the stamens of the ten Males are distinct, or connected in two Brotherhoods is difficult to determine from the Loefflingian character. I have not seen the flowers.*

*Of Ecastaphyllum the stamens are divided into two bodies. R.*

855. ERYTHRINA. \* *Corallodendron Tournef.*  
446. *Coral. Dill. elth. 20.*  
(*Red-nose*) *Coral-tree.*

CAL. *Perianth* one-leaved, intire, tubular: end-nick'd in the mouth above; furnished below with a melliferous pore.

COR. papilionaceous, five-petal'd.

*Banner* lanced, with deflected sides, ascending, very long.

*Wings* rather egg'd, scarcely longer than the calyx, hardly eminent on the outside of the tube of the banner, very small.

*Keel* straight, the length of the wings, two-petal'd, end-nick'd.

STAM. *Filaments* ten, connected below, rather incurved, the length of half the banner, unequal. *Anthers* ten, arrow'd.

PIST. *Germ* pedicel'd, awl'd, attenuated into an awl'd *Style*, the length of the stamens. *Stigma* terminal, simple.

PER. *Legume* very long, protuberant at the seeds, terminated by a point, one-cell'd.

SEEDS kidney-form.

OBS. *E. herbacea (herbaceous) has the tenth stamen separate. R.*

856. PIS-

856. PISCIDIA. *Jacq. amer.* 209. *Piscipula* Loefl.  
*it* 275. *Ichthyometra* Brown p.  
 276. *Fish-bane.*

CAL. *Perianth* one-leaved, bell'd, five-toothed: the superior teeth nearer together.

COR. papilionaceous.

*Banner* ascending, end-nick'd.

*Wings* the length of the banner.

*Keel* mooned, ascending.

STAM *Filaments* ten, connected in a sheath, cleft above. *Anthers* oblong, incumbent.

PIST. *Germ* pedicel'd, compress'd, linear. *Style* thread-form, ascending. *Stigma* acute.

PER. *Legume* pedicel'd, linear, with four longitudinal, membranous angles; one-cell'd, separated by double isthmuses.

SEEDS few, subcylindric.

857. BORBÓNIA.

CAL. *Perianth* one-leaved, half-fivecleft, top-shape, shorter by half than the corol: the *divisions* lanced, pointed, rigid, pricking, subequal; the lowest longer.

COR. five petal'd, papilionaceous, shaggy without.

*Banner* reflected, obtuse, with a claw the length of the calyx.

*Wings* half-hearted, rather shorter than the banner.

*Keel* two-petal'd, moonletted, obtuse.

STAM *Filaments* nine, coalesced above into a cylinder longitudinally gaping, arising at the tops. *Anthers* small.

PIST. *Germ* awl'd. *Style* very short, ascending. *Stigma* obtuse, end-nick'd.

PER. *Legume* roundish, pointed, one-cell'd, dagger'd with a thorn.

SEED kidney-form.

858. SPÁR-

858. SPARTIUM. \* Genista Tournef. 411. Broom.

CAL. *Perianth* one-leaved, heart-tubed: very short on the upper margin, marked below with five toothlets towards the top, colour'd, small.

COR. papilionaceous, five-petal'd.

*Banner* inverse-hearted, the whole reflected, very large.

*Wings* egg'd, oblong, shorter than the banner, annexed to the filaments.

*Keel* two-petal'd, lanced, oblong, longer than the wings, (the keel-margin connected by hairs) inserted into the filaments.

STAM. *Filaments* ten, conjoined, adhering to the germ, unequal, gradually longer: the *superior* one very short: the *inferior* nine-cleft. *Anthers* oblongish.

PIST. *Germ* oblong, shaggy. *Style* awl'd, arising. *Stigma* growing to the superior side of the top, oblong, villous.

PER. *Legume* cylindric, long, obtuse, one-cell'd, two-valved.

SEEDS many, globe-kidneyform.

859. GENISTA. Spartium Tournef. 412. Genistella Tournef. 413. Single-seeded Broom, Dier's Broom.

CAL. *Perianth* one-leaved, small, tubular, two-lip'd: the *upper* lip two-tooth'd, more deeply divided; the *under* lip three-tooth'd, subequal.

COR. papilionaceous.

*Banner* oblong, remote from the keel, the whole reflected.

*Wings* oblong, loose, shorter than the rest.

*Keel* straight, end-nick'd, longer than the banner.

STAM. *Filaments* ten, conjoined, emerging from the keel. *Anthers* simple.

PIST. *Germ* oblong. *Style* simple, arising. *Stigma* acute, involute.

PER. *Legume* roundish, turgid, one-cell'd, two-valved.

SEEDS solitary, oftner kidney-form.

OBS. *There are species which have a three-cleft calyx: with the lowest division three-toothed.* R.

860. ASPÁLATHUS. *Achyronia Royen. African Broom.*

CAL. *Perianth* one-leaved, five-cleft: the *divisions* pointed, equal, the superior one greater.

COR. papilionaceous.

*Banner* compress'd, ascending, inverse-egg'd, oftner externally shaggy, obtuse with a point.

*Wings* mooned, obtuse, spreading, shorter than the banner.

*Keel* two-cleft, similar to the wings.

STAM. *Filaments* ten, conjoin'd in a sheath, gaping above longitudinally, ascending. *Anthers* oblong.

PIST. *Germ* egg'd. *Style* simple, ascending. *Stigma* acute.

PER. *Legume* egg'd, awnless.

SEEDS oftner two, kidney-form.

OBS. *It is particular to this that there are more leaves from the same bud in the shrubby plant.*

*The Calyx is different in various flowers.* R.

811. ÚLEX. \* *Genista Spartium Tournef.* 112.  
*Gorse. Furze-whins.*

CAL. *Perianth* two-leaved, permanent; the *leaflets* egg-oblong, concave, straight, equal, rather shorter than the keel; of which the superior one is two-toothed, the inferior three-toothed.

COR. papilionaceous, five-petal'd.

*Banner* inverse-hearted, end-nick'd, erect, very large.

*Wings* oblong, obtuse, shorter than the banner.

*Keel* two-petal'd, straight, obtuse, the inferior margin converging.

STAM *Filaments* two-brotherhood, (simple and nine cleft). *Anthers* simple.

PIST. *Germ* oblong, cylindric, shaggy. *Style* thread-form, ascending. *Stigma* obtuse, very small.

PER. *Legume* oblong, turgid, scarcely longer than the calyx, straight, one-cell'd; two-valved.

SEEDS few, roundish, end-nick'd.

861. AMORPHA. \* *Hort. Clifford.* (*Shapeless*).  
*False Indigo.*

CAL. *Perianth* one-leaved, tubular, cylindric, top-shape; (the *mouth* erect, five-tooth'd, obtuse; the *two superior teeth* larger), permanent.

COR. *Petal* egg'd, concave, scarcely larger than the calyx, erect, inserted into the calyx within the two larger and superior teeth, placed on the upper side.

STAM. *Filaments* ten, very slightly coalesced at the base, erect, of unequal length, longer than the corol. *Anthers* simple.

PIST. *Germ* roundish. *Style* awl'd, the length of the *stamens*. *Stigma* simple.

PER. *Legume* mooned, reflected, larger than the calyx, compressed, (the top more reflected), one-cell'd, tubercled.

SEEDS two, oblong-kidneyform.

OBS. *By the corol alone it may be distinguished from all the plants in the universe.*

*The Petal is the banner, the wings and keel are wanting, which is very singular in a papilionaceous corol.*

862. CROTALARIA. \* *Dill. elth.*

CAL. *Perianth* three-parted, large, rather shorter than the corol: the *two superior divisions* lanced, incumbent on the banner; the *third* lanced, concave, supporting the keel, three-cleft.

COR. papilionaceous.

*Banner* hearted, acute, large, depressed on the sides.

*Wings* egg'd, shorter by half than the banner.

*Keel* pointed, the length of the wings.

STAM. *Filaments* ten, conjoin'd, ascending, cleft with a dorsal line and gaping at the base. *Anthers* simple.

PIST. *Germ* oblong, reflected, shaggy. *Style* simple, inflected, arising. *Stigma* obtuse.

PER. *Legume* short, turgid, one-cell'd, two-valved, pedicel'd.

SEED one or two, globe-kidneyform.

OBS. *The Crotalariae have very great affinity with Ononis.*

*C. laburnifolia* (*laburnum-leaved*) has the keel of the corol broad, compress'd, beaked, with the wings shorter by half than the banner and keel.

863. ONO-

863. ONÓNIS. \* Anonis Tournef. 408. Rest-Harrow.

CAL. *Perianth* five-parted, nearly the length of the corol: the *divisions* linear, pointed, lightly bow'd upwards: the *lowest* under the keel.

COR. papilionaceous.

*Banner* hearted, striated, depressed on the sides more than the rest.

*Wings* egg'd, shorter by half than the banner.

*Keel* pointed, rather longer than the wings.

STAM. *Filaments* ten, conjoin'd into an intire cylinder. *Anthers* simpler

PIST. *Germ* oblong, villous. *Style* simple, arising. *Stigma* obtuse.

PER. *Legume* rhombed, turgid, subvillous, one-cell'd, two-valved, sessile.

SEEDS few, kidney-form.

Obs. The calyx and Legume are different in different plants.

864. ANTHÝLLIS. \* Vulneraria Tournef. 211.  
Erinacea Tournef. Kidney-Vetch. Lady's-finger.

CAL. *Perianth* one-leaved, egg-oblong, bellied, villous: (the *mouth* five-tooth'd, unequal), permanent.

COR. papilionaceous,

*Banner* longer, the sides reflected, the claw the length of the calyx.

*Wings* two, oblong, shorter than the banner.

*Keel* compres'd, the length of the wings, similar to the wings.

STAM. *Filaments* ten, conjoin'd, arising. *Anthers* simple.

PIST. *Germ* oblong. *Style* simple, ascending. *Stigma* obtuse.

PER. *Legume* roundish, concealed within the calyx, very small, two-valved.

SEED one or two.

876. ÁRA-

876. ARACHIS. \* *Arachidna Plum.* 37. *Arachidnoides Niss. A. G.* 1723. *t.* 19. *Ground-nut.*

CAL. *Perianth* two-parted, gaping : *Upper lip* egg'd, half-threecleft ; the intermediate division larger, end-nick'd. *Under lip* lanced, concave, acute, rather longer.

COR. papilionaceous, resupine.

*Banner* roundish, flat-deflected, very large, end-nick'd, longer than the calyx.

*Wings* free, rather egg'd, shorter than the banner.

*Keel* awl'd, incurved, the length of the calyx, very slightly two-cleft at the base.

STAM. *Filaments* two-brotherhood, all coalesced, divided above, awl'd, the length of the keel. *Anthers* alternate, roundish, alternate ones oblong.

PIST. *Germ* oblong. *Style* awl'd, the length of the germ, ascending. *Stigma* simple.

PER. *Legume* egg-oblong, columnar, valveless, gibbous, wreathed, veined, leathery, one-cell'd.

SEEDS two, oblong, obtuse, gibbous, lop'd at one end.

OBS. *Most of the flowers are male. (a pistil without a germ).*

895. EBENUS. *Ebony of Crete.*

CAL. *Perianth* one-leaved, bell'd, terminated by five thread-form, villous, subequal teeth.

COR. papilionaceous, the length of the calyx.

*Banner* roundish, straight, intire.

Rudiments of *Wings* obscure, mooned.

*Keel* mooned, gibbous, ascending at the top.

STAM. *Filaments* two-brotherhood, all conjoined in a sheath, with distinct tops. *Anthers* roundish.

PIST. *Germ* roundish, villous. *Style* capillary. *Stigma* terminal, dagger'd.

PER. *Legume* egg'd.

SEED one, shaggy.

865. LUPINUS. \* *Tournef.* 213. *Lupine.*CAL. *Perianth* one-leaved: two-cleft.

COR. papilionaceous.

*Banner* heart-roundish, end-nick'd, with reflected, compress'd fides.*Wings* rather egg'd, nearly the length of the banner, not affixed to the keel, converging below.*Keel* two-parted at the base, sickled upwards, pointed, intire, the length of the wings, narrower.STAM. *Filaments* ten, coalesced, subascending, distinct above. *Anthers* five, roundish, and as many oblong.PIST. *Germ* awl'd, compress'd, villous. *Style* awl'd, ascending. *Stigma* terminal, obtuse.PER. *Legume* large, oblong, leathery, compress'd, pointed, one-cell'd.

SEEDS many, roundish, compress'd.

OBS. *Calyx* is different in different species.869. PHASEOLUS. \* *Tournef.* 232. *Kidney-bean.*

CAL. one-leaved, two-lip'd; the upper lip end-nick; the under lip three-tooth'd.

COR. papilionaceous.

*Banner* hearted, obtuse, end-nick'd, reclined, with reflected fides.*Wings* egg'd, the length of the banner, sitting on long claws.*Keel* narrow, spirally revolute contrary to the fun.STAM. *Filaments* two-brotherhood (simple and nine-cleft) within the keel, spiral. *Anthers* ten, simple.PIST. *Germ* oblong, compress'd, villous. *Style* thread-form, spirally inflected, pubescent above. *Stigma* obtuse, thickish, villous.PER. *Legume* long, straight, leathery, obtuse with a point.

SEEDS kidney-form, oblong, compress'd.

OBS. *The spiral keel with the contained fructification, is an essential mark.*  
*Another exterior two-leaved roundish Calyx occurs in many species.*

867. DÓLICHOS. \* *Lablab. Cowitch.*

CAL. *Perianth* one-leaved, very short, four-tooth'd, equal: the *highest toothlet* end-nick'd.

COR. papilionaceous.

*Banner* roundish, large, end-nick'd, the whole reflected, two *Callous* bodies, oblong, parallel and longitudinal, are adjoined under the banner towards the base, compressing the wings, not excavated on the back.

*Wings* egg'd, obtuse, the length of the keel.

*Keel* mooned, compressed, closely converging below, the length of the wings, ascending at the top.

STAM. *Filaments* two-brotherhood, (simple and nine-cleft): the *simple one* curved at the base. *Anthers* simple.

PIST. *Germ* linear, compress'd. *Style* ascending. *Stigma* bearded, running inward from the middle to the top of the style, the *top of the style* callous before, obtuse.

PER. *Legume* pointed, large, oblong, two-valved, two-cell'd.

SEEDS many, elliptic, oftner compress'd.

OBS. It has the appearance of *Phaseolus*; the keel, which is not spiral, distinguishes the genus.

868. GLÝCINE. \* *Apios Boerb. Carolina Kidney-bean tree.*

CAL. *Perianth* one-leaved, compress'd: with a two-lip'd mouth. *Upper lip* end-nick'd, obtuse. *Under lip* longer, three-cleft, acute: the *intermediate tooth* more produced.

COR. papilionaceous.

*Banner* inverse-hearted, (with the *sides* deflected, the *back* gibbous, the *top* end-nick'd, straight), repelled from the keel.

*Wings* oblong, egg'd towards the top, small, bent downwards.

*Keel* linear, sickled, bent upwards, obtuse with the top pressing the banner upwards, broader towards the top.

STAM. *Filaments* two-brotherhood, (simple and nine-cleft), rather divided at the top, revolute. *Anthers* simple.

PIST. *Germ* oblong. *Style* cylindric, spirally revolute. *Stigma* obtuse.

PER. *Legume* oblong.

SEEDS kidney-form.

OBS. *G. Apios* & *frutescens* (shrubby) have two-cell'd legumes.

*G. monoica* (one-house) is singular in this family, on account of its sex.

869. CLITÓRIA. \* *Ternatea Tournef.* A.G. 1706.  
*t. 1. Dill. gen. 10. Clitorius*  
*Dill. eltb. 76.*

CAL. *Perianth* one-leaved, erect, tubular, five-tooth'd, permanent.

COR. papilionaceous.

*Banner* very large, straight, end-nick'd, waved on the margin, expanding.

*Wings* oblong, straight, obtuse, shorter than the banner.

*Keel* shorter than the wings, rather round-sickled.

STAM. *Filaments* two-brotherhood, (simple and nine-cleft). *Anthers* simple.

PIST. *Germ* oblong. *Style* ascending. *Stigma* obtuse.

PER. *Legume* very long, linear, compressed, one-cell'd, two-valved, with an awled top,

SEEDS many, kidney-form.

OBS. *The Corol is oftner resupine.*

870. PÍSUM. \* *Tournef.* 215. *Ochrus Tournef.*  
 219. 220. *Pea.*

CAL. *Perianth* one-leaved, five-cleft, acute, permanent: *the two superior divisions* shorter.

COR. papilionaceous.

*Banner* very broad, inverse-hearted, reflected, end-nick'd with a point.

*Wings* two, roundish, converging, shorter than the banner.

*Keel* compress'd, half-moon'd, shorter than the wings.

STAM. *Filaments* two-brotherhood: *one* simple, superior, awl-flat: and *nine* awl'd below the middle, coalesced into a cylinder, which is cleft above. *Anthers* roundish.

PIST. *Germ* oblong, compress'd. *Style* ascending, triangular, membranous, keel'd outward with reflected sides. *Stigma* adjoined to the superior angle, oblong, villous.

PER. *Legume* large, long, columnarish, (or compress'd downward), with the top pointed upward, one-cell'd, two-valved.

SEEDS many, globular.

OBS. Of *Ochrus T.* the *Seeds* are marked with an oblong *Hile.*

Of *Pisum T.* the *Seeds* are connected by a roundish *Hile.*

871. *OROBUS*. \* *Tournef.* 214. *Bitter Vetch*.

CAL. *Perianth* one-leaved, tubular, obtuse at the base: (the *mouth* oblique, five-tooth'd, very short: the *three inferior toothlets* acuter; the *two superior ones* shorter, deeper and obtusely divided), withering.

COR. papilionaceous.

*Banner* inverse-hearted, reflected at the top and sides, longer. *Wings* two, oblong, nearly the length of the banner, arising, converging.

*Keel* manifestly two-cleft below, pointed, arising: the *margins* converging, parallel, compress'd: the *bottom* bellied.

STAM. *Filaments* two-brotherhood, (simple and nine-cleft), ascending. *Anthers* roundish.

PIST. *Germ* cylindric, compress'd. *Style* thread-form, bent upward, erect. *Stigma* linear, pubescent on the interior side from the middle to the top of the style.

PER. *Legume* columnar, long, with an ascending pointed top, one-cell'd, two-valved.

SEEDS numerous, roundish.

872. *LATHYRUS*. \* *Tournef.* 216. 217. *Clymenum Tournef.* 218. *Aphaca Tournef.* 223. *Chickling Vetch*.

CAL. *Perianth* one-leaved, half-fivecleft, bell'd: the *divisions* lanced, acute: the two superior ones shorter; the lowest longer.

COR. papilionaceous.

*Banner* inverse-hearted, very large, reflected at the sides and top.

*Wings* oblong, moonletted, short, obtuse.

*Keel* semiorbicular, the size of the wings, and broader than them, gaping inward in the middle.

STAM. *Filaments* two-brotherhood (simple and nine-cleft), arising. *Anthers* roundish.

PIST. *Germ* compress'd, oblong, linear. *Style* erect upward, flat, broader above, with an acute top. *Stigma* from the middle to the top of the style, villous before.

PER. *Legume* very long, cylindric or compress'd, pointed, two-valved.

SEEDS many, cylindric, globular, or rather angular.

OBS. *Lathyrus T.* has leaves pair'd tendril-bearing.

*Clymenum T.* bears leaves feather'd, tendril'd.

*Nissolia T.* bears simple leaves wanting tendrils.

*Aphaca T.* puts forth stipules without leaves.

*Pisum* is nearly allied to *Lathyrus*, yet it manifestly differs in the style.

873. VICIA. \* *Tournef.* 221. *Faba Tournef.* 212.  
*Vetch. Bean.*

CAL. *Perianth* one-leaved, tubular, erect, half-fivecleft, acute: the *superior teeth* shorter, converging: *all* of equal breadth.

COR. papilionaceous.

*Banner* oval, with a broad oblong claw, end-nick'd at the top with a point, reflected on the sides, with a longitudinal compress'd elevated line.

*Wings* two, oblong, erect, half-hearted, (with an oblong claw), shorter than the banner.

*Keel* with an oblong, two-parted claw, a compress'd semiorbicular belly, which is shorter than the wings.

STAM. *Filaments* two-brotherhood (simple and nine-cleft). *Anthers* erect, roundish, four-furrow'd.

*Gland of the Nectary* arises from the receptacle within the compound stamen and the germ, short, pointed.

PIST. *Germ* linear, compress'd, long. *Style* thread-form, shorter, ascending at a right angle. *Stigma* obtuse, transversely bearded under the top.

PER. *Legume* long, leathery, two-valved, one-cell'd, terminated by a point.

SEEDS many, roundish.

Of *Faba T.* the seeds are oval, compress'd.

Of *Vicia Riv.* the seeds are roundish.

874. ÉRVUM. \* *Tournef.* 221. *Tare.*

CAL. *Perianth* five-parted, the length of the corol: the *divisions* linear, pointed, subequal.

COR. papilionaceous.

*Banner* flat, slightly reflected, roundish, larger.

*Wings* obtuse, shorter by half than the banner.

*Keel* shorter than the wings, pointed.

STAM. *Filaments* two-brotherhood (simple and nine-cleft), arising. *Anthers* simple.

PIST. *Germ* oblong. *Style* simple, ascending. *Stigma* obtuse, beardless.

PER. *Legume* oblong, obtuse, columnar, knotted with protuberant seeds.

SEEDS four, rather roundish.

Obs. It differs from *Vicia* in the stigma only.

875. CÍCER. \* *Tournef.* 210. *Lens Tournef.* 210.  
*Chick-Pea.*

- CAL. *Perianth* five-parted, the length of the corol: with four *divisions* incumbent on the banner: the two intermediate ones longitudinally converging; the lowest division beneath the keel.
- COR. papilionaceous.  
*Banner* flat, roundish, larger, inflected on the sides.  
*Wings* obtuse, shorter by half than the banner.  
*Keel* shorter than the wings, acutish.
- STAM. *Filaments* two-brotherhood, (simple and nine-cleft), arising.  
*Anthers* simple.
- PIST. *Germ* egg'd. *Style* simple, arising. *Stigmas* obtuse.
- PER. *Legume* rhomboidal, turgid, inflated.
- SEEDS two, roundish, knot-gibbous on the sides, curve-inflected at top.

1319. LIPÁRIA. †

- CAL. *Perianth* one-leaved, very obtuse at the base, half-fivecleft, acute: the lowest division very long, elliptic, petal-like.
- COR. papilionaceous without the processes of the keel or wings.  
*Banner* oblong, conduplicate, straight: with reflected sides.  
*Wings* oblong, straight, narrower at the base, two-lobed on the inferior margin.  
*Keel* lanced, subascending, two-parted at the base.
- STAM. *Filaments* two-brotherhood: (simple and nine-parted), thread-form: three of them shorter. *Anthers* egg'd.
- PIST. *Germ* sessile, very short. *Style* thread-form, middle-size. *Stigma* simple.
- PER. *Legume* egg'd.
- SEEDS few.

877. CYTISUS. \* *Tournef.* 416. *False tree-trefoil.*

**CAL.** *Perianth* one-leaved, bell'd, short, obtuse at the base: with a two-lip'd mouth: the upper lip two-cleft, pointed; the under one three-tooth'd.

**COR.** papilionaceous.

*Banner* egg'd, arising, with reflected sides.

*Wings* the length of the banner, straight, obtuse.

*Keel* bellied, pointed.

**STAM.** *Filaments* two-brotherhood, (simple and nine-cleft), arising. *Anthers* simple.

**PIST.** *Germ* oblong. *Style* simple, arising. *Stigma* obtuse.

**PER.** *Legume* oblong, obtuse, attenuated at the base, rigid.

**SEEDS** few, kidney-form, compress'd.

**OBS.** *C. Cajan* the wings of the corol are horizontally flat, and the keel obtuse.

*C. supinus* (supine) has the calyx tubular, bellied, two-lip'd. R.

## 1417. MULLÉRA. S.

**CAL.** *Perianth* one-leaved, bell'd, compress'd, lop'd at the base above the pedicel, flattish, four-tooth'd: the superior tooth obliterated, sometimes cleft: lateral teeth remoter from the superior one, acute: the lowest tooth more produced, more-awl'd.

**COR.** papilionaceous, five-petal'd.

*Banner* reflected, hearted, egg'd, most intire, obtuse, flat: the claw flattish, scarcely longer than the calyx, remote from the wings and keel.

*Wings* oblong, converging, gibbous at the base and petioled.

*Keel* shorter than the wings, consisting of leaflets distinct, converging, petioled at the base, forming an oblong, compress'd straight sheath.

**STAM.** *Filaments* conjoined in one body compress'd, broader at the base, afterwards attenuated and straight, cleft into ten awl'd filaments. *Anthers* egg'd, terminal.

**PIST.** *Germ* linear, compress'd. *Style* short. *Stigma* acute.

**PER.** *Fruit* neck-lace-form, from three, four or five, concatenated globules with a short petiole and germ: the Globules all globular, those nearer the calyx larger, gradually less towards the top, solid, one-valved, one-cell'd, one-seeded.

**SEED** compress'd, kidney-form, smooth, and affixed in the cell by the hile (as in the leguminous plants.)

## 878. GEOF-

878. GEOFFRÓYA. *Jacq. amer.* 207.

CAL. *Perianth* one-leaved, bell'd, half-fivecleft: the two superior *divisions* diverging, expanding.

COR. papilionaceous.

*Banner* roundish, end-nick'd, flat, reflected.

*Wings* the length of the banner, obtuse, concave.

*Keel* compress'd, the length and figure of the wings.

STAM. *Filaments* two-brotherhood, (simple and nine-cleft), the length of the keel. *Anthers* roundish.

PIST. *Germ* roundish, *Style* awl'd. *Stigma* obtuse.

PER. *Drupe* egg'd, large, with a longitudinal furrow on both sides.

SEED *A Nut* nearly egg'd, rather woody, rather compress'd, with a longitudinal furrow on both sides, acute, two-valved.

 879. ROBINIA. \* *Pseudoacacia Tournef.* 417.  
*False Acastia.*

CAL. *Perianth* one-leaved, small, bell'd, four-cleft: the three inferior *toothlets* slenderer; the fourth highest one twice as broad, scarcely manifestly end-nick'd: all equal in length.

COR. papilionaceous.

*Banner* roundish, larger, expanding, obtuse.

*Wings* oblong, egg'd, free: with a very short, obtuse appendage.

*Keel* nearly semiorbicular, compress'd, obtuse, the length of the wings,

STAM. *Filaments* two-brotherhood, (simple and nine-cleft), ascending above. *Anthers* roundish.

PIST. *Germ* cylindric, oblong. *Style* thread-form, bent upward. *Stigma* villous before to the top of the style.

PER. *Legume* large, compress'd, gibbous, long.

SEEDS few, kidney-form.

OBS. R. *mitis* (mild) has the legume oval-oblong, compress'd, pointed; the *Calyx* rather lop'd. R.

880. COLÚTEA. \* *Tournef.* 481. *Bladder Senna.*

CAL. *Perianth* one-leaved, bell'd, five-cleft, erect, subequal, permanent.

COR. papilionaceous.

*Banner*, wings, and keel differ in a variety of form and proportion.

*Wings* appressed, lanced.

STAM. *Filaments* two-brotherhood, (simple and nine-cleft), ascending.

*Anthers* simple.

PIST. *Germ* oblong, compress'd, attenuated at both ends. *Style* ascending. *Stigma* extended from the superior part with a bearded line from the middle of the style to the top of it.

PER. *Legume* very large, very broad, inflated, membrane-diaphanous, (with the superior *future* erect, the *inferior* one gibbous), one-cell'd, gaping at the base in the superior future.

SEEDS many, kidney-form.

OBS. *The fruit constitutes the essence of the genus.*

*C. frutescens* (shrubby) has the banner shorter than the keel, the wings much shorter than the banner.

882. GLYCYRRHIZA. \* *Tournef.* 210. (*Sweet-root*) *Liquorice.*

CAL. *Perianth* one-leaved, tubular, two-lip'd, permanent. *Upper lip* three-parted: the lateral divisions linear: the intermediate one broader, two-cleft. *Under lip* most simple, linear.

COR. papilionaceous.

*Banner* egg-lanced, straight, longer.

*Wings* oblong, very similar to the keel, but rather larger.

*Keel* two-petal'd, acute, the claw the length of the calyx.

STAM. *Filaments* two-brotherhood, (simple and nine-cleft), straight.

*Anthers* simple, roundish.

PIST. *Germ* shorter than the calyx, *Style* awl'd, the length of the stamens. *Stigma* obtuse, ascending.

PER. *Legume* egg'd, or oblong, compress'd, acute, one-cell'd.

SEEDS very few, kidney-form.

883. CO-

883. CORONILLA. \* *Tournef.* 419. *Emerus*  
*Tournef.* 418. *Securidaca*  
*Tournef.* 224. *Pod-jointed*  
*Colutea.*

CAL. *Umbellet* simple.

*Perianth* one-leaved, very short, compress'd, two-cleft, erect:  
 (the three inferior teeth less; the two superior coalesced), per-  
 manent.

COR. papilionaceous.

*Banner* hearted, every way reflected, scarcely longer than the  
 wings.

*Wings* egg'd, converging upward, gaping downward, obtuse.

*Keel* compress'd, pointed, ascending. oftner shorter than the  
 wings.

STAM. *Filaments* two-brotherhood, (simple and nine-cleft), ascending  
 nearly at a right angle, with broadish tops, *Anthers* simple,  
 small.

PIST. *Germ* columnar, oblong. *Style* bristly, ascending. *Stigma*  
 small, obtuse.

PER. *Legume* very long, columnar, straight, contracted between  
 each seed with isthmuses, two-valved, one-cell'd, disparting  
 by joints.

SEEDS many.

OBS. *Coronilla T.* has the *Legume* columnar as if jointed: the seeds  
 oblongish.

*Securidaca T.* has the *Legume* compress'd, with one suture flat,  
 another narrower, the seeds four-corner'd.

*Emerus T.* has the *Claws* of the *Corol* longer than the *calyx*: the  
*Legume* slender, awl'd: the seeds cylindric.

884. ORNITHOPUS. \* *Ornithopodium Tournef.*  
224. *Bird's-foot.*

CAL. *Umbel* simple.

*Perianth* one-leaved, tubular, (the *mouth* five-tooth'd, subequal), permanent.

COR. papilionaceous.

*Banner* inverse-hearted, intire.

*Wings* egg'd, straight, scarcely the size of the banner.

*Keel* compress'd, very small.

STAM. *Filaments* two-brotherhood, (simple and nine-cleft). *Anthers* simple.

PIST. *Germ* linear. *Style* bristly, ascending. *Stigma* a terminal point.

PER. *Legume* awl'd, columnar, bow'd, jointed and intercepted with isthmuses, disparting by joints.

SEEDS solitary, roundish.

885. HIPPOCRÉPIS. \* *Ferrum equinum Tournef.* 225. *Horse-shoe Vetch.*

CAL. *Umbel* simple.

*Perianth* one-leaved, five-tooth'd: (the *superior* toothlets conjoined, and less divided); permanent.

*Banner* hearted, sitting on a claw the length of the calyx.

*Wings* egg-oblong, obtuse.

*Keel* moon'd, compress'd.

STAM. *Filaments* two-brotherhood, (simple and nine-cleft), ascending. *Anthers* simple.

PIST. *Germ* slender, oblong, ending in an awl'd, ascending *style*. *Stigma* most simple.

PER. *Legume* flat-membraned, very long, incurved, many times gashed in the lower suture, almost to the upper, with roundish sinuses; hence consisting of *joints* obtusely three-corner'd, very numerous, connected to the superior suture.

SEEDS solitary in each joint, oblong, incurved.

OBS. *The essential character consists in the Legume being in the form of a horse shoe.*

886. SCOR-

886. SCORPIURUS. \* *Scorpioides Tournef. 226.*  
(*Scorpion-tail*) *Caterpillars.*

CAL. *Umbellet* simple.

*Perianth* one-leaved, erect, inflated, slightly compress'd, half-fivecleft, acute: with subequal *teeth*: the *superior ones* less divided.

COR. papilionaceous.

*Banner* roundish, end-nick'd, reflected, expanding.

*Wings* rather egg'd, loose, with an obtuse appendage.

*Keel* half-moonletted, the *belly* gibbous, pointed, erect, two-parted below.

STAM. *Filaments* two-brotherhood, (simple and nine-cleft), ascending. *Anthers* small.

PIST. *Germ* oblong, columnar, rather reflected. *Style* inflected upward. *Stigma* a terminal point.

PER. *Legume* oblong, columnarish, leathery, striated, rugged, revolute, internally divided into many transverse cells, externally obscurely knotted with contracted joints.

SEED solitary, roundish.

588. ÆSCHYNÓMENE. \* *False Sensitive plant.*

CAL. *Perianth* one-leaved, bell'd, rather two-lip'd, the *Lips* equal; the *superior one* indeed two-cleft: the *inferior three-tooth'd*.

COR. papilionaceous.

*Banner* rather hearted, scarcely gaping, larger.

*Wings* nearly egg'd, obtuse, shorter than the banner.

*Keel* mooned, pointed, the length of the wings.

STAM *Filaments* ten, (simple and nine-cleft). *Anthers* small.

PIST. *Germ* oblong, villous, columnar. *Style* awl'd, ascending. *Stigma* simple, obtusish.

PER. *Legume* long, flat-compress'd, jointed, rugged, one-cell'd, disparting in lop'd joints.

SEEDS solitary within each joint, kidney-form.

887. HE-

887. HEDYSARUM. \* *Tournef.* 225. *Onobrychis Tournef.* 211. *Alhagi Tournef.* 439. *French Honeysuckle. Moving plant. Saint-Foin.*

CAL. *Perianth* one-leaved, half-fivecleft: the *divisions* awl'd, erect, permanent.

COR. papilionaceous, striated.

*Banner* flat-reflected, egg-oblong, end-nick'd, long.

*Wings* oblong, narrower than the rest, straight.

*Keel* straight, compress'd, broader outward, transversely obtuse, two-cleft from the base to the gibbous part.

STAM. *Filaments* two-brotherhood, (simple and nine-cleft), inflected to a right angle. *Anthers* roundish, compress'd.

PIST. *Germ* slender, compress'd, linear. *Style* awl'd, inflected as the stamens; *Stigma* most simple.

PER. *Legume* with joints roundish, compress'd, one-seeded, two-valved.

SEED kidney-form, solitary.

OBS. *The Pericarp differs little in this genus.*

In *Onobrychis* T. the *Legume* consists of one joint.

In *Hedysarum* T. the *Legume* consists of very numerous joints affixed chainwise.

*Alhagi* T. is distinguished from *Hedysarum* T. by alternate leaves.

889. INDIGÓFERA. \* *Indigo Isnard. A. G. Indigo.*

CAL. *Perianth* one-leaved, expanding, flattish, five-tooth'd.

COR. papilionaceous.

*Banner* rounded, reflected, end-nick'd, expanding.

*Wings* oblong, obtuse, expanding on the inferior margin, the figure of the banner.

*Keel* obtuse, expanding, deflected, marked on both sides with an awl'd hollow dagger.

STAM. *Filaments* two-brotherhood, digested in a cylinder, ascending at the tops. *Anthers* roundish.

PIST. *Germ* cylindric. *Style* short, ascending. *Stigma* obtuse.

PER. *Legume* columnarish, long.

SEEDS few, kidney-form.

890. GA-

890. GALEGA. \* *Tournef.* 222. Indigo *Isnard.*  
*A.G. Cracca Syst. nat. Goat's Rue.*

CAL. *Perianth* one-leaved, tubular, short, half-fivecleft: the *Teeth* awl'd, subequal.

COR. papilionaceous.

*Banner* larger, egg'd, reflected at the top and sides.

*Wings* oblong, augmented by an appendage, nearly the length of the banner.

*Keel* oblong, compress'd, straight, gibbous downward toward the top, acute upwards.

STAM. *Filaments* two-brotherhood, (simple and nine-cleft). *Anthers* oblong.

PIST. *Germ* slender, oblong. *Style* slender, shorter than the *Germ*, ascending. *Stigma* a very small terminal point.

PER. *Legume* very long, compress'd, pointed, plough'd with oblique strias between the seeds.

SEEDS many, oblong-kidneyform.

891. PHACA. \* *Astragaloides Tournef.* 223. *False Milk Vetch.*

CAL. *Perianth* one-leaved, tubular, five-tooth'd.

COR. papilionaceous.

*Banner* inverse-egg'd, straight, larger.

*Wings* oblong, obtuse, shorter.

*Keel* short, compress'd, obtuse.

STAM. *Filaments* two-brotherhood, (simple and nine-cleft). *Anthers* roundish, ascending.

PIST. *Germ* oblong. *Style* awl'd, ascending. *Stigma* simple.

PER. *Legume* oblong, inflated, half-twocell'd, with the superior suture depresso'd towards the inferior.

SEEDS many, kidney-form.

OBS. The *Legume* in some is straight, but in others recurved, so as the top nearly touches the base.

In some *Astragaluses* the partition of the *Legume* is not affixed to the superior suture, altho' it is approximated; hence appears the great affinity between *Phaca* and *Astragalus*.

892. AS-

892. ASTRAGALUS. \* *Tournef.* 233. *Tragacantha*  
*Tournef.* 234. *Milk-Vetch.*  
*Liquorice Vetch.*

CAL. *Perianth* one-leaved, tubular, five-tooth'd, acute: the *inferior* toothlets gradually less.

COR. papilionaceous.

*Banner* longer than the rest, reflected on the sides, end-nick'd, obtuse, straight.

*Wings* oblong, shorter than the banner.

*Keel* the length of the wings, end-nick'd.

STAM. *Filaments* two-brotherhood, (simple and nine-cleft), nearly straight. *Anthers* roundish.

PIST. *Germ* columnarish. *Style* awl'd, ascending. *Stigma* obtuse.

PER. *Legume* two-cell'd: the *cells* bent more to one side.

SEEDS kidney-form.

OBS. *Tragacantha T.* is a shrubby plant with thorny petioles.

*Astragalus Riv.* has an oblong, many-seeded *Siliqua*.

*Glaux Riv.* bears a hearted *Siliqua*.

The Legumes are therefore different in different species. R.

893. BISSERRULA. \* *Pelecinus Tournef.* 234.  
 (double saw).

CAL. *Perianth* one-leaved, tubular, erect, half-fivecleft; the *Teeth* awl'd. equal: the *two superior ones* more remote.

COR. papilionaceous.

*Banner* larger, reflected on the sides, ascending, roundish.

*Wings* egg-oblong, free, shorter than the banner.

*Keel* the length of the wings, obtuse, ascending.

STAM. *Filaments* two-brotherhood, (simple and nine-cleft), ascending at the tops, included in the keel. *Anthers* small.

PIST. *Germ* oblong, compress'd. *Style* awl'd, ascending. *Stigma* simple.

PER. *Legume* large, linear, flat, two-cell'd: the *partition* contrary to the valves.

SEEDS numerous, kidney-form, compress'd.

894. PSO-

894. PSORÁLEA. \* *Roy. ludb. p. 372. Dalea edit. prior. (Wart-wort).*

CAL. *Perianth* one-leaved, dotted with the tubercles, five-cleft: with acute, equal, permanent *divisions*: the lowest twice as long.

COR. papilionaceous, five-petal'd,  
*Banner* roundish, end-nick'd, arising.  
*Wings* moonletted, obtuse, small.  
*Keel* two-petal'd, moonletted, obtuse.

STAM. *Filaments* two-brotherhood, (the simple one briefly and nine coalesced), ascending. *Anthers* roundish.

PIST. *Germ* linear. *Style* awl'd, ascending, the length of the stamens. *Stigma* obtuse.

PER. *Legume* the length of the calyx, compress'd, ascending, pointed.

SEED one, kidney-form.

OES. *It is singular that the calyx in this genus, as well as the whole plant, is dotted with tubercles; and the petals marked with coloured veins.*

896. TRI-

896. TRIFOLIUM. \* *Tournef.* 228. *Trifolium*  
*Mich.* 25. *Melilotus Tournef.*  
 229. *Lupinaster Buxb.* *Trefoil.*  
*Clover. Melilot.*

CAL. Umbellet or headlet with the common receptacle.

*Perianth* one-leaved, tubular, five-tooth'd, permanent.

COR. papilionaceous, oftner permanent, withering.

*Banner* reflected.

*Wings* shorter than the banner.

*Keel* shorter than the wings.

STAM. *Filaments* two-brotherhood, (simple and nine-cleft). *Anthers* simple.

PIST. *Germ* nearly egg'd. *Style* awl'd, ascending. *Stigma* simple.

PER. *Legume* scarcely longer than the calyx, one-valved, not gaping, deciduous.

SEEDS very few, roundish.

OBS. *I think the absolute character of this genus, with its real and essential mark, is of all the most difficult to be determined.*

*The appearance and various attributes of the species prove this genus to be natural: neither have they discovered proper definitions, who have attempted to divide it.*

*Of Triphylloides Pont. The Corol is one-petal'd with the banner, wings and keel coalesced in one.*

*Of Trifolium Mich. The Legume is longer than the calyx, and the Florets collected in a head.*

*Of Lupulinum Riv. The Corol is permanent; with a flat inflected banner.*

*Of Lagopus Riv. The villous calyx is the length of the corol.*

*Of Melilotus T. The legume is longer than the calyx.*

*Lupinaster B. The legumes are many-seeded, the leaves five.*

879. LÓTUS. \* *Tournef.* 227. *Birdsfoot Trefoil.*

CAL. *Umbel* simple.

*Perianth* one-leaved, tubular, half-fivecleft: (the *teeth* acute, equal, erect), permanent.

COR. papilionaceous.

*Banner* roundish, bent downward; the claw oblong, concave. *Wings* roundish, shorter than the banner, broad, converging upward.

*Keel* gibbous beneath, closed above, pointed, ascending, short.

STAM. *Filaments* two-brotherhood (simple and nine-cleft), ascending with broadish tops. *Anthers* small, simple.

PIST. *Germ* columnar, oblong. *Style* simple, ascending. *Stigma* an inflected point.

PER. *Legume* cylindric, upright, stuffed, longer than the calyx, many-cell'd, two-valved, one-cell'd.

SEEDS many, cylindric.

898. TRIGONÉLLA. \* *Fœnum græcum Tournef.*  
270. *Fenugreek.*

CAL. *Perianth* one-leaved, bell'd, half-fivecleft: the *toothlets* awl'd, subequal.

COR. papilionaceous, as if three-petal'd?

*Banner* nearly egg'd, obtuse, reflex-expanding.

*Wings* two, egg-oblong, reflex-expanding outwards, as if the banner with the wings constituted a regular three-petal'd corol.

*Keel* very short, obtuse, occupying the navel of the flower.

STAM. *Filaments* two-brotherhood (simple and nine-cleft), short, arising. *Anthers* simple.

PIST. *Germ* egg-oblong. *Style* simple, arising. *Stigma* simple.

PER. *Legume* egg-oblong, compress'd, cover'd.

SEEDS many, roundish.

OBS. *By the figure alone of the corol the genus becomes distinct.*

899. MEDICAGO. \* *Tournef.* 231. *Medica Tournef.*  
231. *Snail, or Moon-Trefoil.*

CAL. *Perianth* one-leaved, straight, bell-cylindric, half-fivecleft, pointed; equal.

COR. papilionaceous.

*Banner* egg'd, intire, with reflected margins, the whole reflected.

*Wings* egg-oblong, affixed by an appendage to the keel, with the sides converging under the keel.

*Keel* oblong, two-cleft, expanding, obtuse, deflected from the pistil and gaping from the banner.

STAM. *Filaments* two-brotherhood, coalesced nearly to the tops. *Anthers* small.

PIST. *Germ* pedicel'd, oblong, incurv'd, compress'd, involved in the filaments, starting from the keel, bending back the banner, ending in a *Style* short, awl'd, nearly straight. *Stigma* terminal, very small.

PER. *Legume* compress'd, long, inflected.

SEEDS many, kidney-form or angled.

OBS. Of cochleata (*snail-born'd*) R. *The Silique is spirally snail-born'd.*  
Of falcata (*sickled*) R. *The Silique is bow'd, sickled.*

## CLASS XVIII.

## MANY BROTHERHOODS.

*(Polyadelphia.)*

## I. FIVE MALES.

*(Pentándria.)*

900 Theobróma.  
1418 Abróma.

II. TWELVE MALES.  
*(Dodecándria.)*

1268 Monfónia.

III. TWENTY MALES.  
*(Icosándria.)*

901 Cítrus.

IV. MANY MALES.  
*(Polyándria.)*

1320 Glabrária.  
1321 Munchhaúfia.  
Dúrio.  
1269 Melaleúca.  
1270 Hopéa.  
677 Sýmplocos.  
902 Hypéricum.  
903 Áfcyrum.

I. FIVE MALES.  
(*Pentándria.*)

900. THEOBRÓMA. † (*Food of the Gods*) Guazuma Plum. 18. Cacao  
*Tournef. 444. Chocolate nut.*

CAL. *Perianth* three-leaved, reflex-expanding: the leaflets egg'd, concave, deciduous.

COR. *Petals* five, gibbous, five-nerved, concave-helmetted: each horned with a two-cleft bristle.

*Nectary* bell'd, erect-expanding, less than the petals? consisting of five egg-lanced, connected leaflets.

STAM. *Filaments* awl'd, the length of the nectary, to which they grow like rays: each five-cleft at the top. With five *Anthers* on each stamen covered by the vault of the petal.

PIST. *Germ* nearly egg'd. *Style* awl'd the length of the nectary. *Stigma* simple.

PER. The *Bark* woody, unequal, five ways roughen'd, bearing the seeds five ways internally.

SEEDS very numerous, fleshy, nearly egg'd.

OBS. Cacao T. has oblong five-angled fruit, produced at both ends.

Guazuma Pl. has the fruit subglobular, every where rugged with tubercles; the Bark perforated, sieve-form, five-cell'd.

1418. ABRÓMA. S. (*No Food.*)

CAL. *Perianth* five-leaved: the leaflets lanced, expanding, permanent.

COR. *Petals* five, egg'd, large, loose, sitting on the interior top of the exterior nectary.

The exterior *Nectary* pitcher'd.

*Scales* five, erect, linear, obtuse, recurve-vaulted at the summit.

STAM. *Filaments* five, very short between the scales of the interior nectary. *Anthers* three, twin, kidney-form, without the clefts of the interior nectary.

PIST. *Germ* above, subcylindric. *Styles* five, awl'd, approximated. *Stigmas* acute.

PER. *Capsule* oblong, five-winged, lop'd, dagger'd, five-cell'd, gaping above, one-valved, intire.

SEEDS numerous, kidneyform-roundish, adhering on both sides to the bearded receptacles of the capsule.

OBS. The flower of *Theobroma*, especially in the nectaries, the fruit of *Hibiscus*.

## II. TWELVE MALES.

(Dodecándria.)

## 1268. MONSÓNIA.

CAL. *Perianth* five-leaved, erect: the *leaflets* lanced, dagger'd under the top, equal, permanent.

COR. *Petals* five, inverse-egg'd, equal, longer than the calyx.

STAM. *Filaments* 15, lanced, shorter than the calyx, conjoin'd in five bodies, each from three. *Anthers* three in each body, oblong.

PIST. *Germ* five-corner'd, short. *Style* columnar, the length of the stamens. *Stigmas* five, oblong.

PER. *Capsule* five-corner'd, five-cell'd.

SEEDS solitary?

## III. TWENTY MALES.

(Icosándria.)

901. CÍTRUS. \* *Aurantium* Tournef. 393. 394.  
*Citreum* Tournef. 395. 396. *Limon*  
*Tournef.* 397. *Orange.* *Lemon.*  
*Citron.*

CAL. *Perianth* one-leaved, five-cleft, flat at the base, very small, withering.

COR. *Petals* five, oblong, flat, expanding.

STAM. *Filaments* oftner twenty, awl'd, compress'd, erect, placed in an orb or cylinder oftner conjoin'd amongst themselves in more or fewer bodies. *Anthers* oblong.

PIST. *Germ* roundish. *Style* cylindric, the length of the stamens. *Stigma* globular, internally nine-cell'd.

PER. *Berry* with a fleshy bark, the pulp contain'd in vesicles, nine-cell'd.

SEEDS two, nearly egg'd, callous.

Obs. Of *Aurantium* T. *The petiole is hearted.*

*Citreum* T. *The petiole is naked and simple.*

*Limon* T. *is easily distinguished by gardeners.* T.

#### IV. MANY MALES. (*Polyándria.*)

##### 1320. GLABRÁRIA.

CAL. *Perianth* one-leaved, tubular, five-cleft, shorter by half than the corol.

COR. *Petals* five, lanced, obtuse, equal.

*Nectary* surrounding the germ: with bristles awl'd, erect, colour'd, the length of the calyx.

STAM. *Filaments* thirty, capillary, interposed with the nectaries: six and six connected at the base, the length of the calyx. *Anthers* kidney-form.

PIST. *Germ* subglobular, (four-grain'd?) *Style* thread-form, the length of the stamens. *Stigma* simple.

PER. *Drupe* more juiceless, one-cell'd. *Rumph.*

SEED *Nucleus* bony, oval. *Rumph.*

##### 1321. MUENCHHAUSIA

CAL. *Perianth* one-leaved, half-five-cleft, top-shape, wreathed, permanent: with obtuse *divisions*.

COR. *Petals* six, inverse-egg'd, expanding, claw'd, inserted into the calyx.

STAM. *Filaments* 24 or 30, capillary, shorter than the petals; conjoin'd in six bodies. *Anthers* kidney-form.

PIST. *Germ* above, egg'd. *Style* thread-form, declining, middle size. *Stigma* obtuse.

PER. *Capsule* egg'd, pointed, six-cell'd.

SEEDS numerous.

Obs. *Linneus* formerly refer'd this genus to the class *Twenty Males, One Female*. (*Mant.* p. 153) but now taught by better observation he inserts it in the Class *Many Brotherhoods, Many Males*; since it has sixtimes 4 or 5 stamens. *Syst. Veg.* R.

DÚ-

## DÚRIO. † Rumph. amb. 1. p. 99.

CAL. *Perianth* one-leaved, pitcher'd, five-lobed, (the lobes rounded), deciduous.

COR. *Petals* five, added to the calyx and less than it, concave.

STAM. *Filaments* conjoin'd in five bodies, divided into 7, awl'd, longer than the corol. *Anthers* contorted.

PIST. *Germ* roundish, stip'd. *Style* bristly, the length of the stamens. *Stigma*

PER. *Pome* roundish, every way murex'd with many-sided daggers, five-cell'd, gaping five ways.

SEEDS few, egg'd, with a dagger'd aril.

OBS. The Character *must be amended by observers.*

## 1269. MELALEUCA.

CAL. *Perianth* above, five-parted, (the divisions rounded, evanescent), permanent.

COR. *Petals* five, roundish, minute.

STAM. *Filaments* above twenty, bristly, erect, very long, conjoined in five bodies, from 6 or 7 each. *Anthers* oblong, incumbent.

PIST. *Germ* beneath, top-shape. *Style* thread-form, erect, the length of the stamens. *Stigma* acute.

PER. *Capfule* coloured, roundish, half-cloathed: (with a berry'd Calyx pitcher'd, most intire, like a prepuce); three-cell'd, three-valved.

SEEDS numerous, decumbent, oblong, pointed inward, lop'd outward.

OBS. It has *Affinity* to Ginora.

1270. HOPEA. *Auth. Gardenio.* †

CAL. *Perianth* one-leaved, bell'd, five-cleft: the *divisions* egg'd, obtuse, permanent.

COR. *Petals* five, oblong, concave, connected at the base with the intermediate fascicles of the stamens.

STAM. *Filaments* very numerous, bristly, longer than the corol, conjoined at the base in five bodies. *Anthers* quadrangular.

PIST. *Germ* beneath, roundish. *Style* gradually thickened, the length of the corol, permanent. *Stigma* thickish, obliquely depress'd.

PER. *Drupe* dry, cylinder-oval, gibbous, crown'd with a calyx.

SEED A Nutt smooth, three-cell'd, protracted with an obtuse top.

Obs. *There are two Cells of the Nucleus often abortive and obliterated. It seems to have an Affinity of Styra.*

677. SYMPLOCOS. *Jacq. amer.* 166.

CAL. *Perianth* one-leaved, bell'd, five-cleft, small: with roundish, erect *divisions*.

COR. *Petals* five, oblong, obtuse, erect, most expanding, above.

STAM *Filaments* numerous, awl'd, flat, shorter than the petals, growing to the tube of the corol in a fourfold series; the inferior ones shorter. *Anthers* roundish.

PIST. *Germ* above, roundish. *Style* thread-form, the length of the stamens. *Stigma* headed, nearly three-cleft.

PER. - - - -

SEED - - - -

902. **HYPÉRICUM.** \* *Tournef.* 131. *Androsæ-*  
*mun Tournef.* 128. *Ascyrum*  
*Tournef.* 131. *St. John's wort.*

**CAL.** *Perianth* five-parted, the *divisions* nearly egg'd, concave, permanent.

**COR.** *Petals* five, egg-oblong, obtuse, expanding, wheel'd according to the motion of the sun.

**STAM.** *Filaments* numerous, capillary, coalesced at the base in 5 or 3 phalanxes. *Anthers* small.

**PIST.** *Germ* roundish. *Style* three, (sometimes 1, 2, 5), simple, distant, the length of the stamens. *Stigmas* simple.

**PER.** *Capsule* roundish; the *cells* the number of the style.

**SEEDS** numerous, oblong.

**OBS.** *Lasianthus* is five-female with winged seeds.

*Ascyrum T.* is five-female with simple seeds.

*Hypericum T.* is three-female with a membranous pericarp.

*Androsæmun T.* is three-female with a soft coloured pericarp.

903. **ASCYRUM.** \* *Hypericoides Plum.* 7. *St.*  
*Peter's wort.*

**CAL.** *Perianth* four-leaved: the *exterior leaflets* opposite, very minute, linear; the *interior ones* hearted, large, flat, erect; all permanent.

**COR.** *Petals* four, egg'd: the *exterior ones* opposite, very large; the *interior ones* less.

**STAM.** *Filaments* numerous, bristly, slightly coalesced at the base in four parts. *Anthers* roundish.

**PIST.** *Germ* oblong. *Style* scarcely any. *Stigma* simple.

**PER.** *Capsule* oblong, pointed, two-valved, included in the larger leaves of the calyx.

**SEEDS** numerous, small, roundish.

**OBS.** *So many attributes, differing from Hypericum, forbid their union, tho' their appearance and affinity are very similar.*

CLASS

## C L A S S XIX.

## CONFEDERATE MALES.

(Syngénesia.)

SYNGENESIA. \* *The compound flowers of Tournef. Riv. Raj. Herm. &c.*

Natural character of the Floret.

CALYX. the Crown of the seed, sitting on the top of the germ (*see the Crown of the seed.*)

COROL. one-petal'd: the *Tube* very narrow, long, sitting on the germ: *it is either.*

a. TUBULAR: the *Border* bell'd, five-cleft: the *divisions* reflex-expanding.

b. TONGUED: the *Border* linear, flat, turn'd outward, the end intire, three-tooth'd, or five-tooth'd, lop'd.

g. NONE: Destitute of a *Border*, and often wanting a *tube*.

STAMENS. *Filaments* five, capillary, very short, inserted into the neck of the corollet. *Anthers* as many, linear, erect, coalesced at the sides into a tubular cylinder, five-tooth'd, the length of the border.

PISTIL. *Germ* oblong, beneath under the corollet, above the common receptacle. *Style* thread-form, erect, the length of the stamens, perforating the cylinder of the anthers. *Stigma* two-parted: the *divisions* revolute, expanding.

PERICARP. No real ones, altho' in some there is a leathern *Crust*: as in *Osteospermum*, *Strumpfia*.

SEED. one, oblong, often four-corner'd, oftner with a narrower base. *Crown'd* by a PAPPUS with numerous *simple rays* placed in an orb, either *ray'd*, or *branched*: and that pappus either *sessile* or sitting on a *stipe*. The PERIANTH small, often five-tooth'd, permanent.

Or Destitute of a *Crown*.

OBSER-

## OBSERVATION.

The Sex discovers itself in various methods, hence the following species of florets.

The tubular Floret is Hermaphrodite, if the stamens and pistil are present.

———— Male, if the stamens without stigmas.

———— Female, if the pistil without stamens.

———— Neuter, if neither stamens, pistil, or stigma.

———— The tongued Floret is Hermaphrodite, Male, Female, or Neuter, as is evident from the above.

## Character of the FLOSCULOUS FLOWER.

A FLOSCULOUS FLOWER, is composed of many florets.

The COMMON RECEPTACLE of the fructification receives many sessile florets.

The Disk concave, flat, convex, pyramidal, or globular.

———— The Surface naked: unequal with very slight points.

*Villous*: cover'd with erect hairs.

*Chaffy*: cloathed with linear, awl'd, compress'd, erect, chaff, separating the florets.

The Common CALYX is a *Perianth*, which contains the receptacle and florets, which is contracted when florescence is finish'd: becomes expanded and reflected when the seed is mature; and is either

*Simple*, when it surrounds the florets with a single series.

*Imbricated*, when the numerous exterior scales gradually shorter lean upon the interior.

*Augmented*, when one equal longer series of divisions surrounds the florets, and another very small one surrounds the base only of the simple interior and larger calyx.

There are the following SPECIES OF COMPOUND flowers: for they are composed either of

1. Tubular hermaphrodite florets in the disk; tubular hermaphrodite ones in the ray.
2. Tubular hermaphrodite florets in the disk; tubular female ones in the ray.
3. Tubular hermaphrodite florets in the disk; tubular neutral ones in the ray.
4. Tubular hermaphrodite florets in the disk; tongued hermaphrodite ones in the ray.
5. Tubular hermaphrodite florets in the disk; tongued female ones in the ray.

6. Tubu-

6. Tubular hermaphrodite florets in the disk; tongued neuter ones in the ray.
7. Tubular hermaphrodite florets in the disk; naked female ones in the ray.
8. Tubular male florets in the disk; naked female ones in the ray.
9. Tongued hermaphrodite florets in the disk; tongued hermaphrodite ones in the ray.

*We shall have the orders therefore from the received fructification.*

- a. Equal polygamy. *species* 9. 1. 4.
  - b. Superfluous polygamy. — 2. 5. 7.
  - c. Frustraneous polygamy. — 3. 6.
  - d. Necessary polygamy. — 8.
  - e. Segregate polygamy bears many partial or proper calyxes within the common calyx.
  - f. Monogamy is simple, not compounded of florets.
- These I explain'd in the *Systema Naturæ*.

## O B S E R V A T I O N S.

This Class is *natural*, unless we add to the last order *Jasione*, *Lobelia*, *Viola*, *Impatiens* according to the necessary systematical principles here assumed.

The Essence of a flosculous flower consists in the Anthers being coalesced in a cylinder, with one seed within the receptacle of the floret; Kuhnah alone has distinct Anthers.

The common Calyx is wanting in *Echinops*, is present in *Scabiosa* &c.

The common Receptacle is absent in *Milleria*, present in *Dipsacus*.

Therefore the Essence of the floret is sought in vain from the calyx and receptacle: and *Scabiosa*, *Dipsacus*, *Gomphrena* &c. are falsely refer'd to compound flowers.

It is remarkable that Plumier adopted no genus of compound flowers.

Tournefort expected the most natural genera in compound flowers, tho' destitute of the observations of late writers.

Vaillant has made more observations on compound flowers than any other Author.

CON-

## CONFEDERATE MALES.

*(Syngenesia.)*

## I. EQUAL POLYGAMY.

*(Polygamia æqualis.)*

904 Geropógon.  
 905 Tragopógon.  
 906 Scorzonéra.  
 907 Pícaris.  
 908 Sónchus.  
 909 Lactúca.  
 910 Chondrilla.  
 911 Prenánthes.  
 912 Leóntodon.  
 913 Hierácium.  
 914 Crépis.  
 915 Andryála.  
 916 Hyóferis.  
 917 Seríola.  
 918 Hypochœris.  
 919 Lápšana.  
 920 Catanánche.  
 921 Cichórium.  
 922 Scólymus.

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923 Árcetium.  
 924 Serrátula.

925 Cárduus.  
 926 Cnícus.  
 927 Onopórdum.  
 928 Cýnara.  
 929 Carlína.  
 930 Atráctylis.  
 1419 Barnadéfiá.  
 931 Cárthamus.

\* \* \*

1287 Spilánthus.  
 932 Bídens.  
 933 Racália.  
 934 Ethúlia.  
 935 Eupatórium.  
 936 Agératum.  
 937 Pterónica.  
 938 Stæhelína.  
 939 Chrysócoma.  
 940 Tarchonánthes.  
 941 Cálea.  
 942 Santolína.  
 943 Athanáfiá.

II. SU-

II. SUPERFLUOUS  
POLYGAMY.

(*Polygámia superflua.*)

- 944 Tanacétum.  
945 Artemesia.  
946 Gnaphalium.  
947 Xeranthemum.  
948 Carpesium.  
949 Bacccharis.  
950 Conyza.  
951 Erigeron.

\* \*

- 952 Tussilago.  
953 Senecio.  
954 Aster.  
955 Solidago.  
957 Cineraria.  
956 Inula.  
958 Arnica.  
959 Doronicum.  
960 Perdicium.  
1421 Mutisia.  
961 Helénium.  
962 Bellis.  
1322 Bellium.  
964 Tagetes.  
963 Leysera.  
974 Zinnia.  
965 Pectis.  
966 Chrysanthemum.

- 1420 Unxia.  
967 Matricana.  
968 Cótula.

\* \* \* \*

- 969 Anacycleus.  
970 Anthemis.  
971 Achillea.  
972 Tridax.  
978 Amellus.  
1321 Eclipta.  
973 Sigesbeckia.  
975 Verbesina.  
977 Bupthalmum.

III. FRUSTRANEOUS  
POLYGAMY.

(*Polygámia frustranea.*)

- 979 Heliánthus.  
980 Rudbeckia.  
981 Coreopsis.  
983 Osmites.  
Sclerocarpus.  
981 Gorteria.  
2271 Zoegea.  
984 Centaurea.  
Didelta.

IV. NECESSARY  
POLYGAMY.

(*Polygámia necessaria.*)

858 Mil-

- 985 Milléria.  
 1323 Baltimóra.  
 986 Sílpium.  
 987 Polýmnia.  
 988 Chrysógonum.  
 989 Melampódium.  
 990 Caléndula.  
 991 Arctólis.  
 992 Osteospermum.  
 993 Othónna.  
 1324 Híppia.

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- 994 Eriocéphalus.  
 995 Filágo.  
 996 Mícropus.

V. SEPARATE  
 POLYGAMY.  
 (*Polygámia segregata.*)

- 997 Elephántopus.

- 1325 Oedéra.  
 998 Sphæránthus.  
 999 Echínops.  
 1000 Gundélia.  
 1422 Júngia.  
 1301 Stæbe.

VI. MONOGAMY.  
 (*Monogámia.*)

- 1003 Seríphium.  
 1002 Strúmpfia.  
 1004 Corýmbium.

\* \*

- 1005 Jafíone.  
 1006 Lobélia.  
 1007 Víola.  
 1008 Impátiens.

I. EQUAL

## I. EQUAL POLYGAMY.

*(Polygámia æqualis.)*904. GEROPÓGON. (*Old-man's beard.*)

CAL. *Common* simple, many-leaved: the *leaflets* lance-awl'd, keel'd, erect, longer than the corol.

COR. *Compound* subimbricated, uniform. The *Corollets* hermaphrodite: the exterior ones as many, as the leaflets of the calyx; the interior ones fewer, shorter.

*Proper* one-petal'd, tongued, lop'd, five-tooth'd.

STAM. *Filaments* five, very short. *Anthers* cylindric, tubular.

PIST. *Germ* oblong. *Style* thread-form, the length of the stamens. *Stigmas* two, recurvate, thread-form.

PER. none. *Calyx* oblong, erect, gaping.

SEEDS of the *Ray* awl'd, the length of the calyx. *Pappus* with five expanded awns.

REC. with bristly chaff.

OBS. *There is a species with a calyced calyx.* R.

905. TRAGOPÓGON, \* *Vaill. A. G. 1721. 44.*

13. 21. 14. *Tournef. 270.*

*Tragopogonoides Vaill. A.*

*G. 1721. 43. 15. 14.*

*Goat's-beard.*

CAL. *Common* simple, eight-leaved: the *leaflets* lanced, equal; the alternate ones interior; all coalesced at the base.

COR. *Compound* imbricated, uniform: the *Corollets* hermaphrodite, many, the exterior ones rather longer.

*Proper* one-petal'd, tongued, lop'd, five-tooth'd.

STAM. *Filaments* five, capillary, very short. *Anthers* cylindric, tubular.

PIST. *Germ* oblong. *Style* thread-form, the length of the stamens. *Stigmas* two, revolute.

PER. none. *Calyx* converging, pointed, the length of the seeds, bellied.

SEEDS solitary, oblong, attenuated both ways, angular, rugged, terminated by an awl'd, long, pappus-bearing stipe. *Pappus* feathery, flat, with about thirty two rays.

REC. naked, flat, rugged.

OBS. *Tragopogon Vaill. has straight seeds, the calyx longer than the corol.*

*Tragopogonoides Vaill. has incurvate seeds, the calyx shorter than the corol.*

## 906. SCOR-

906. SCORZONÉRA. \* *Tournef.* 169. *Vaill.*  
*A.G.* 1721. 53. 13. 16. 14.  
*Scorzoneaoides Vaill. A.G.*  
*Viper-grass.*

CAL. *Common* imbricated, long, subcylindric: the *Scales* about fifteen, parch'd on the margin.

COR. *Compound* imbricated, uniform: the *Corollets* hermaphrodite, very numerous; the exterior ones rather longer.

*Proper* one-petal'd, tongued, linear, lop'd, five-tooth'd.

STAM. *Filaments* five, capillary, very short. *Anthers* cylindric, tubular.

PIST. *Germ* oblong. *Style* thread-form, the length of the *stamens*.  
*Stigmas* two, reflected.

PER. none. *Calyx* egg-oblong, converging.

SEEDS solitary, oblong, cylindric, striated, shorter by half than the calyx. *Pappus* feathery.

REC. naked.

OBS. *Scorzonera V. has intire leaves.*

*Scorzoneroides V. has leaves divided and jagg'd.*

*S. picroides (picris-like) has a feathery pappus. R.*

907. PÍCRIS. \* *Helminthotheca Vaill. A.G.* 1721.  
 47. 25. 26. *Bitterness.*

CAL. *Common* double, the exterior one very large, five-leaved: the leaflets hearted, flat, loose, converging; the interior one imbricated, egg'd.

COR. *Compound* imbricated, uniform: the *Corollets* hermaphrodite, numerous.

*Proper* one-petal'd, tongued, linear, lop'd, five-tooth'd.

STAM. *Filaments* five, capillary, very short. *Anthers* cylindric, tubular.

PIST. *Germ* nearly egg'd. *Style* the length of the *stamens*. *Stigmas* two, reflected.

PER. none. *Calyx* unchanged.

SEEDS solitary, bellied, transversely furrow'd, obtuse. *Pappus* feathery.

REC. naked.

908. SÓNCHUS. \* *Tournef.* 268. *Vaill. A.G.* 1721.  
22. *Crepis Vaill. A.G.* 1721. 55.  
22. *Sow-thistle.*

CAL. *Common* imbricated, bellied: the *Scales* numerous, linear, unequal.

COR. *Compound* imbricated, uniform: the *Corollets* hermaphrodite, numerous, equal.

*Proper* one-petal'd, tongued, linear, lop'd, five-tooth'd.

STAM. *Filaments* five, capillary, very short. *Anthers* cylindric, tubular.

PIST. *Germ* rather egg'd. *Style* thread-form, the length of the *stamens*. *Stigmas* two, reflected.

PER. none. *Calyx* converging into a depress'd, pointed globe.

SEEDS solitary, oblongish. *Pappus* feathery.

REC. naked.

OBS. *S. Plumieri (of Plumier) has a stiped pappus.* R.

909. LACTÚCA. \* *Tournef.* 267. *Vaill. A.G.* 1721. 17. *Lettuce.*

CAL. *Common* imbricated, cylindric: the *scales* very numerous, pointed, membranous on the margin.

COR. *Compound* imbricated, uniform: the *Corollets* hermaphrodite, numerous, equal.

*Proper* one-petal'd, tongued, lop'd, four or five-tooth'd.

STAM. *Filaments* five, capillary, very short. *Anthers* cylindric, tubular.

PIST. *Germ* rather egg'd. *Style* thread-form, the length of the *stamens*. *Stigmas* two, reflected.

PER. none. *Calyx* converging, egg-cylindric.

SEEDS solitary, egg'd, pointed, polished, compress'd. *Pappus* hairy, simple. *Stipe* long, attenuated beneath.

REC. naked.

910. CHONDRILLA. \* *Tournef.* 268. *Vaill.*  
*A. G.* 1721. 12. *Gum.*  
*Succory.*

- CAL. *Common* calyced, cylindric: the *scales of the cylinder* very numerous, parallel, linear, equal: *scales of the base* few, very short.  
 COR. *Compound* imbricated, uniform: the *Corollets* hermaphrodite, very numerous, equal, placed in a manifold series.  
*Proper* one-petal'd, tongued, linear, lop'd, four or five-tooth'd.  
 STAM. *Filaments* five, capillary, very short. *Anther* cylindric, tubular.  
 PIST. *Germ* rather egg'd. *Style* thread-form, the length of the *stamens*. *Stigmas* two, reflected.  
 PER. none. *Calyx* cylindric, oblong.  
 SEEDS solitary, egg'd, compress'd, murex'd. *Pappus* hairy, with a *stipe* long, attenuated above.  
 REC. naked.

911. PRENANTHES. \* *Vaill. A. G.* 1721. 2.  
 18. *Wild Lettuce.*

- CAL. *Common* calyced, cylindric, smooth: the *scales of the cylinder* the number of the *corollets*; *those of the base* few, unequal, very short.  
 COR. *Compound* almost from a simple orb of *florets*: the *Corollets* hermaphrodite, five to eight and more, equal, placed in a simple orb.  
*Proper* one-petal'd, tongued, lop'd, four-tooth'd.  
 STAM. *Filaments* five, capillary, very short. *Anthers* cylindric, tubular.  
 PIST. *Germ* rather egg'd. *Style* thread-form, longer than the *stamens*. *Stigma* two-cleft, reflected.  
 PER. none. *Calyx* cylindric, slightly converging in the mouth.  
 SEEDS solitary, hearted. *Pappus* hairy.  
 REC. naked.  
 OBS. *There is a species which sustains the pappus on a stipe.*

912. LEONTODON. (*Lion's-tooth*) \* Dens Leonis  
*Tournef.* 266. *Vaill. A.G.* 1721.  
 50. 12. *Taraxaconoides Vaill.*  
*A.G.* 1721. 21. *Dandelion.*

CAL. Common imbricated, oblong: the interior scales linear, parallel, equal: the exterior scales fewer, often reflected to the base.

COR. Compound imbricated, uniform: the Corrollets hermaphrodite, numerous, equal.

*Proper* one-petal'd, tongued, linear, 'op'd, five-tooth'd.

STAM. Filaments five, capillary, very short. Anther cylindric, tubular.

PIST. Germ rather egg'd. Style thread-form, the length of the corol. Stigmas two, revolute.

PER. none. Calyx oblong, straight.

SEEDS solitary, oblong, rugged. Pappus stiped, feathery.

REC. naked; dotted.

OBS. Dens Leonis (*Lion's-tooth*) *V.* has a simple or capillary pappus, and the exterior scales of the calyx reflected.

*Taraxaconoides V.* is distinguished by a feathery or ray'd pappus, and all the scales of the calyx erect.

*L. aureum* (golden) has a villous receptacle. *R.*

The Pappus in most is sessile.

Of *L. hirtum* (shaggy) the exterior seeds are adorned with a short leafy ornament: the interior ones with a feathery pappus. *Hall. R.*

913. HIERACIUM. \* *Tournef.* 267. *Vaill. A. G.*  
 1721. 3. 46. 49. 57. 58. 59. 60.  
*Pilosella Vaill. A.G.* 1721. 57.  
*Hawkweed.*

CAL. Common imbricated, egg'd: the scales many, linear, very unequal, longitudinal and incumbent.

COR. Compound imbricated, uniform: the Corollets hermaphrodite, numerous, equal.

*Proper* one-petal'd, tongued, linear, 'op'd, five-tooth'd.

STAM. Filaments five, capillary, very short. Anthers cylindric, tubular.

PIST. Germ rather egg'd. Style thread-form, the length of the stamens. Stigmas two, recurved.

PER. none. Calyx converging, egg'd.

SEEDS solitary, obtusely four-corner'd, short. Pappus hairy, sessile.

REC. naked.

OBS. Of *Hieracium* of *V.* the stem is branchy.

Of *Pilosella* of *T.* The scape is simple.

914. CRÉ-

914. CRÉPIS. \* Hieracioides Vaill. A. G. 1721.  
47. 52. 13. 17. 18. False-Hawk-  
weed.

CAL. Common double.

Exterior one very short, expanded, deciduous.

Interior one egg'd, simple, furrow'd, permanent: the scales linear, converging.

COR. Compound imbricated, uniform: the Corollets hermaphrodite, numerous, equal.

Proper one-petal'd, tongued, linear, lop'd, five-tooth'd.

STAM. Filaments five, capillary, very short. Anthers cylindric, tubular.

PIST. Germ rather egg'd. Style thread-form, the length of the stamens. Stigmas two, reflected.

PER. none, Calyx roundish.

SEEDS solitary, oblong. Pappus hairy, stiped.

REC. naked.

OBS. The Pappus in some is sessile. R.

915. ANDRÝA A. \* Eriphorus Vaill. A. G. 1721.  
20. downy Sow-thistle.

CAL. Common many-parted, short, rounded, villous: the scales numerous, subequal, awl'd.

COR. Compound imbricated, uniform: the Corollets hermaphrodite, numerous, equal.

Proper one-petal'd, tongued, linear, lop'd, five-tooth'd.

STAM. Filaments five, capillary, very short. Anther cylindric tubular.

PIST. Germ egg'd. Style thread-form, the length of the stamens.

Stigmas two, reflected.

PER. none. Calyx converging, globular.

SEEDS solitary, egg'd. Pappus hairy, the length of the calyx.

REC. villous, flatish.

916. HYÓSERIS. \* *Taraxaconastrum Vaill. A. G.*  
 1721. 45. 31. 32. 24. *Leontodon-*  
*toides Mich. gen. 28. Hedypnois*  
*Tournef. 271. Rhagadioloides Vaill.*  
*A. G. 1721. 29. 30. Swine's*  
*Lettuce.*

CAL. *Common* ten-leaved: the *scales* lanced, erect, equal, calyced at the base with very short scales.

*Proper* above, five-parted, very short, acute, permanent, which is instead of a pappus.

COR. *Compound* subimbricated, uniform: the *Corollets* hermaphrodite, disposed in one or two orbs.

*Proper* one-petal'd, tongued, linear, lop'd, five-tooth'd.

STAM. *Filaments* five, capillary, very short. *Anther* cylindric, tubular.

PIST. *Germ* oblongish. *Style* thread-form, the length of the *stamens*.  
*Stigmas* two, reflected.

PER. none. *Common Calyx* straight.

SEEDS solitary, oblongish, compress'd, the length of the calyx.  
*Pappus* hairy and calyced.

REC. naked.

OES. Of *Caraxaconastrum V.* The *outmost seeds* are crowned with a *three-tooth'd calyx*, the *middle ones* with a *five-cleft calyx* with *hairs*; the *intermediate ones* are crowned with *hairs* only.

Of *Leontodontoides M.* the *seeds* are nearly naked.

*Hedypnois T.* the *marginal seeds* are covered with the *scales* of the *Calyx*, the *central ones* crowned with a *five-tooth'd calycle*.

*Rhagadioloides V.* the *seeds* are incurved with a *chaffy crown*.

917. SERIOLA. \* *Achyrophorus Vaill. A. G.*  
1721. f. 28. 13. 21. 18.

- CAL. Common simple: the leaflets linear, subequal, erect.  
 COR. Compound imbricated, uniform; the Corollets hermaphrodite, equal, numerous.  
*Proper one-petal'd, tongued, linear, lop'd, five-tooth'd.*  
 STAM. Filaments five, capillary, very short. Anthers cylindric, tubular.  
 PIST. Germ egg'd. Style thread-form, the length of the stamens.  
*Stigmas two, reflected.*  
 PER. none. Calyx unchanged.  
 SEEDS oblong, the length of the calyx. Pappus stiped, hairy: with ten rays; the sides hairy.  
 REC. Chaffy, the length of the calyx, deciduous.  
 OBS. The Pappus is call'd *subplumy*. *Syst. Veg.* 601. R.

918. HYPOCHAERIS. \* *Vaill. A. G.* 1721. 28. 21.

- CAL. Common roundish, imbricated, bellied at the base: the scales lanced, acute.  
 COR. Compound imbricated, uniform: the Corollets hermaphrodite, equal, numerous.  
*Proper one-petal'd, tougued, linear, lop'd, five-tooth'd.*  
 STAM. Filaments five, capillary, very short. Anthers cylindric, tubular.  
 PIST. Germ egg'd. Style thread-form, the length of the stamens.  
*Stigmas two, reflected.*  
 PER. none. Calyx converging, globe-pointed.  
 SEEDS solitary, oblong. Pappus stiped, feathery.  
 REC. Chaffy: the Chaff lance-linear, the length of the seeds.  
 OBS. Of *H. glabra* (smooth) the seeds of the disk have a stiped pappus: of the ray a sessile pappus. *Hall.* R.

919. LAPSANA. \* *Lampfana Vaill. A. G. 1721. 8.*  
 48. *Tournef. 272. Rhagadiolus*  
*Vaill. A. G. 1721. t. 47. 37. 38.*  
*Tournef. 272. Zacintha Vaill. A. G.*  
*1721. 48. 27. 33. 35. 36. Tournef.*  
 269. *Nipple-wort.*

CAL. Common calyced, egg'd, angular; the scales of the tube eight, equal, linear, hollow-channel'd, keel'd, acute; the scales of the base six, imbricated, small, the alternate ones very small.

COR. Compound imbricated, uniform: the Corollets hermaphrodite, about sixteen, equal.

*Proper one-petal'd, tongued, lop'd, five-tooth'd.*

STAM. Filaments five, capillary, very short. Anthers cylindric, tubular.

PIST. Germ oblongish. Style thread-form, the length of the stamens. Stigma two-cleft, reflected.

PER. none. The scales of the tube of the calyx embrace the nearest seeds.

SEEDS solitary, oblong, cylinder-three-corner'd. Pappus various or none.

REC. naked, flat.

OBS. Of *Lampfana* T. V. all the seeds are naked, but none obvolv'd in the scales of the calyx.

Of *Rhagadiolus* T. V. each seed is involved in each scale of the calyx.

Of *Zacintha* T. V. the marginal seeds are involved in each scale of the calyx; the central ones are crowned with a short, simple pappus.

920. CATANANCHE. \* *Vaill. A.G.* 1721. 56. 11.  
*Catanance Tournef.* 271.  
*Candy Lion's foot.*

CAL. Common imbricated, top-shape: the *leaflets* numerous, loosely incumbent, acute, parch'd; the *scalelet* egg-pointed, concave, loose, glossy, permanent.  
 COR. Compound oftner imbricated, uniform: the *Corollets* hermaphrodite, many: the exterior ones longer.  
*Proper* one-petal'd, tongued, linear, lop'd, five-tooth'd.  
 STAM. *Filaments* five, capillary, very short. *Anthers* cylindric, tubular.  
 PIST. Germ oblong. *Style* thread-form, the length of the *stamens*.  
*Stigma* two-cleft, reflected.  
 PER. none. *Calyx* unchanged.  
 SEEDS solitary, top-egg'd. *Pappus* from a five-awn'd Calycle.  
 REC. Chaffy.  
 OBS. *There is a species in which the compound Corol is not imbricated.*

921. CICHÓRIUM. \* *Tournef.* 272. *Vaill. A.G.*  
 1721. 9. 10. *Succory, Endive.*

CAL. Common calyced, cylindric: the *scales* eight, narrow-lanced, equal, constituting a cylinder; but *five* of them incumbent, shorter.  
 COR. Compound flat, uniform: the *Corollet* hermaphrodite, twenty, placed in an orb.  
*Proper* one-petal'd, tongued, lop'd, deeply five-tooth'd.  
 STAM. *Filaments* five, capillary, very short. *Anthers* cylinder-five-corner'd, tubular.  
 PIST. Germ oblong. *Style* thread-form, the length of the *stamens*.  
*Stigmas* two, revolute,  
 PER. none. *Calyx* cylindric, converging at the top.  
 SEEDS solitary, compress'd, with acute angles. *Pappus* obscurely hairy, rather five-tooth'd.  
 REC. rather Chaffy.

922. SCOLYMUS. \* *Tournef.* 273. *Vaill. A. G.*  
1721. 41. 42. *Golden-thistle.*

CAL. *Common* imbricated, egg'd: the *scales* numerous, lanced, thorny, loose.

COR. *Compound* imbricated, uniform: the *Corollets* hermaphrodite, numerous, equal.

*Proper* one-petal'd, tongued, linear, lop'd, very slightly five-tooth'd.

STAM. *Filaments* five, capillary, very short. *Anthems* cylindric, tubular.

PIST. *Germ* oblong. *Style* thread-form, longer than the stamens. *Stigmas* two, reflected.

PER. none. *Calyx* unchanged.

SEEDS solitary, oblongish, triangular, pointed at the base. *Pappus* none.

REC. chaffy, convex: the *chaff* roundish, flat, three-tooth'd at top, longer than the seeds and separating the seeds.

923. ARCTIUM. \* *Lappa Tournef.* 256. *Vaill. A.G.*  
1718. f. 20. *Burdock.*

CAL. *Common* globular, imbricated: the *scales* lanced, ending in prickles which are awl'd, long, reflex-hook'd at the top.

COR. *Compound* tubular, uniform: the *Corollets* hermaphrodite, equal. *Proper* one-petal'd, tubular: the *tube* slender, very long: the border egg'd, five-cleft: the *divisions* linear, equal.

STAM. *Filaments* five, capillary, very short. *Anther* cylindric, tubular, the length of the corol, five-tooth'd.

PIST. *Germ* oblong, with an hairy top. *Style* thread-form, longer than the stamens. *Stigma* two-cleft, reflected.

PER. none. *Calyx* converging.

SEEDS solitary, vertically pyramidal, with two opposite, obliterated angles, gibbous without. *Pappus* simple, shorter than the seeds.

REC. chaffy, flat: the chaff bristly.

924. SERRÁTULA. \* *Dill. giff. 8. elth. 261. 264.*  
*Saw-wort.*

CAL. Common oblong, subcylindric, imbricated with lanced, acute, awnless scales.

COR. Compound tubular, uniform: the Corollets hermaphrodite, equal. Proper one-petal'd, funnel-form: the tube reflected, the border bellied, five-cleft.

STAM. Filaments five, capillary, very short. Anthers cylindric, tubular.

PIST. Germ egg'd. Style thread-form, the length of the stamens. Stigmas two, oblong, reflected.

PER. none. Calyx unchanged.

SEEDS solitary, inverse-egg'd. Pappus sessile.

REC. naked or chaffy.

OBS. The Pappus in some is feathery, in others hairy.

*Carduus is distinguished from Serratula by its hairy receptacle, bellied Calyx, and its prickly scales; and by its Stigma less two-cleft.*

925. CÁRDUUS. \* *Vaill. A. G. 1718. Polycantha*  
*Vaill. A. G. 1718. Silybum Vaill. A. G. 1718.*  
*Cirfium Tournef. 255. Vaill. A. G. 1718. Erioc-*  
*cephalus Vaill. A. G. 1718. Thistle.*

CAL. Common bellied, imbricated; the scales numerous, lanced, pointed, thorny.

COR. Compound tubular, uniform. The Corollets hermaphrodite, subequal, reflected.

Proper one-petal'd, funnel-form; the tube very slender, the border erect, egg'd at the base, five-cleft: the divisions linear, equal: one more deeply separated.

STAM. Filaments five, capillary, very short. Anthers cylindric, tubular, the length of the corollet, five-tooth'd in the mouth.

PIST. Germ egg'd. Style thread-form, longer than the stamens. Stigma simple, awl'd, naked, end-nick'd.

PER. none. Calyx rather converging.

SEEDS solitary, inverse-egg'd, four-corner'd, with two opposite obliterated angles; the Pappus sessile, very long.

REC. hairy, flat.

926. CNICUS. \* *Acarna Vaill. A. G. 1718. Blessed Thistle.*

- CAL. *Compound* egg'd, fenced with bractes, imbricated: the *scales* egg'd, crowded, branch-thorny.  
 COR. *Compound* tubular, uniform: the *Corollets* hermaphrodite, equal. *Proper* of the hermaphrodite funnel-form, oblong: the *border* five-cleft, erect, subequal.  
 STAM. *Filaments* five in the hermaphrodites, capillary, very short. *Anthers* cylindric, tubular.  
 PIST. *Germ* short. *Style* thread-form, the length of the *stamens*. *Stigma* oblong, end-nick'd.  
 PER. none. *Calyx* closed.  
 SEEDS solitary. *Pappus* feathery.  
 REC. flat, villous.

927. ONOPORDUM. \* *Vaill. A. G. 1718. f. 37. Cardui species Tournef. 253. Woolly Thistle.*

- CAL. *Common* roundish, bellied, imbricated: the *scales* numerous, thorny, every way prominent.  
 COR. *Compound* tubular, uniform: the *Corollets* hermaphrodite, equal. *Proper* one-petal'd, funnel-form: the *tube* very slender; the *border* erect, bellied, five-cleft: the *divisions* equal, one more deeply separated.  
 STAM. *Filaments* five, capillary, very short. *Anther* cylindric, tubular, the length of the *corol*, five-tooth'd.  
 PIST. *Germ* egg'd. *Style* thread-form, longer than the *stamens*. *Stigma* crowned.  
 PER. none. *Calyx* slightly converging.  
 SEEDS solitary. *Pappus* capillary.  
 REC. Netted with four-cornered membranous cells like a honey-comb.

928. CYNARA. \* Vaill. A. G. 1718. Cinara  
Tournef. 254. Artichoke.

CAL. Common bellied, imbricated: the *scales* numerous, roundish, fleshy, augmented at the top with an *appendage*, which is scale-form, expanded, larger, roundish, channel'd, end-nick'd with a thorn.

COR. Compound tubular, uniform: the *Corollets* hermaphrodite, subequal.

*Proper* one-petal'd, funnel-form: the *tube* very slender; *border* erect, egg'd, five-cleft: the *divisions* linear, one more deeply separated.

STAM. *Filaments* five, capillary, very short. *Anther* cylindric, tubular, the length of the corollet, five-tooth'd.

PIST. *Germ* nearly egg'd. *Style* thread-form, longer than the *stamens*. *Stigma* simple, oblong, end-nick'd.

PER. none. *Calyx* rather converging.

SEEDS solitary, egg-oblong, four-corner-compress'd. *Pappus* sessile, long.

REC. bristly

929. CARLINA. \* Tournef. 285. Vaill. A.G. 1718.  
Carline Thistle.

CAL. Common bellied, ray'd, imbricated: the *scales* numerous, loose, acute, of which the *interior* are placed in an orb, very long, expanding, glossy, coloured, raying the compound flower.

COR. Compound uniform, tubular: *corollets* hermaphrodite, equal. *Proper* one-petal'd, funnel-form: the *tube* slender; the *border* funnel-form, five-cleft.

STAM. *Filaments* five, capillary, very short. *Anther* cylindric, tubular.

PIST. *Germ* short. *Style* thread-form, the length of the *stamens*. *Stigma* oblong, two-cleft or intire.

PER. none. *Calyx* unchanged.

SEEDS solitary, columnarish. *Pappus* feathery, branchy.

REC. flat, the *chaff* three'd, cloven.

## 930. ATRAC-

930. ATRACTYLIS. \* Crocodilodes Vaill. A. G.  
1718. f. 9. *Distaff Thistle.*

CAL. *Exterior* many-leaved, linear, larger, rough, permanent, imprisoning the common one.

*Common* egg'd, imbricated, the *scales* oblong, numerous, lanced, converging, unarm'd.

COR. *Compound* ray'd: *corollets* hermaphrodite, numerous, tubular in the disk: hermaphrodite, tongued in the ray.

*Proper of the disk* funnel-form, five-cleft.

*Of the Ray* tongued, flat, five-tooth'd.

STAM. *of the disk*: *Filaments* five, capillary, very short. *Anther* cylindric, tubular.

*Filaments of the Ray* five, capillary, very short. *Anther* cylindric, tubular.

PIST. *of the disk*: *Germ* very short. *Style* thread-form, the length of the stamens. *Stigma* two-cleft,

*Of the Ray* very similar to that of the disk, but obscure, withered.

PER. none. *Calyx* converging.

SEEDS *of the disk* top-shape, compress'd. *Pappus* feathery.

*Of the Ray* top-shape, compress'd. *Pappus* feathery.

REC. villous, flat.

OBS. *A. cancellata* (*latticed*) is seldom furnished with a ray.

1419. BARNADÉSIA. *Mutis.* S.

CAL. rather bellied, expanded at the top, imbricated. *Scales* numerous, gradually longer from the base to the top: the *inferior* or *exterior* ones egg'd, closely imbricated, acute, pungent: the *superior* or *interior* awl'd, flat, expanded, pungent.

COR. Compound ray'd; the *florets of the disk* hermaphrodite, very few, (three or four) remote. *Corollets* tubular, funnel-form. *Tube* short. *Border* shaggy, five-parted: the *divisions* erect, converging.

The *Florets of the ray* hermaphrodite in one series. *Corollets* tongued. *Tube* longer than the calyx; the *Tongue* lanced, expanding at the base, incurvate at the top, slit, very shaggy without.

STAM. *Filaments* five. *Anthers* conjoined in a cylinder, the length of the tongue, and longer than the border.

PIST. *Germ* egg'd. *Style* thread-form, longer than the stamens. *Stigma* two-cleft, with expanded, egg-rounded divisions.

PER. none. *Calyx* converging.

SEEDS numerous, egg'd, hairy, the hairs reversed. *Pappus of the flowers of the disk* bristly, the *rays* awl'd, rigid, retrofracted, naked, unless covered with most minute hairs.

*Pappus of the flowers of the ray* long, erect, expanded, many-ray'd, feathery, soft.

REC. flat, villous. *Chaff* none.

931. CARTHAMUS. \* *Tournef.* 248. Vaill. A.G. 1718. *Atractylis* Vaill. A.G. Carthamoides Vaill. A.G. 1718. *False Safforn.*

CAL. Common egg'd, imbricated: the *scales* numerous, contracted below, augmented at the top with a leafy, rather egg'd, flat, expanding, obtuse appendage.

COR. Compound uniform, tubular; *corollets* hermaphrodite, equal. *Proper* one-petal'd, funnel-form; the *border* five-parted, erect, tubequal.

STAM. *Filaments* five, capillary, very short. *Anther* cylindric, tubular.

PIST. *Germ* very short. *Style* thread form, longer than the stamens. *Stigma* simple.

PER. none. *Calyx* converging.

SEEDS solitary.

REC. flat, hairy, the hairs longer than the seed.

OBS. Of *Carthamus* V. the seed is nearly naked.

*Atractylis* V. the seed has an obscure crown.

*Carthamoides* V. the seed is furnished with an hairy crown.

*C. lanatus* (woolly) has the *florets of the ray* neuter, and creticus (cretan) abortive. R.

1287. SPILANTUS. L'Heretier *Stirp. nov. Fasc. 1.*

CAL. Common simple, top-shape-hemispheric, villous; (the leaflets about 12, subequal, linear, acute), permanent.

COR. Compound, uniform, higher than the calyx, the Corollets hermaphrodite, equal, very numerous.  
Proper funnel-form; the border 5-cleft, acute, expanding, subrevolute.

STAM. Filaments 5, capillary, inserted into the tube of the corol, and the length of it. Anthers cylindric, tubular, erect, scarcely protruded from the tube of the corol.

PIST. Germ beneath, egg'd, compress'd, two-edged, guarded on the margin and top with scatter'd down. Style slender, the length of the stamens. Stigmas two, linear, rather headed at top, pubescent, revolute.

PER. none. Calyx unchanged, gaping at maturity.

SEEDS vertical, or adverse according to the Linnean language, egg'd, two-edged, flat, margin'd, fringed; (the fringes erect or ascending), ruggedish, tawny, cover'd with chaff, shorter by half. Pappus two bristles, scarcely distinguishable from the fringes, rather longer.

RECEPT. cylinder-spindleform, chaffy, the length of the flower, the Chaff linear, obtusish, keel'd, compressed at the sides, in the flower it is purple and villous, the length of the florets, in the fruit pellucid.

OBS. We prefer'd this description of L'Heretier, being taken from a living plant in the Gardens of Paris. He marks its difference from *Bidens* in the Calyx, Seed, and Receptacle, and exhorts Botanists to observe the verticality or horizontality of Seeds. Those he calls vertical or adverse, whose flat sides look to the horizon; and those horizontal, whose flat sides look upwards. (Translators).

*S. atriplifolius* (atriplex-leaved) has awnless seeds, and *S. Æmella* has the ray-flowers, and most of the florets of the disk four-cleft, sometimes mix'd with 5-cleft ones. Linn. R. The four-cleft florets have four stamens, the five-cleft ones five. R.

932. **BIDENS.** \* *Tournef. (Double-tooth)* 262.  
*Dill. elth.* 43. 47. *Ceratocephalus (Horn-head)*  
*Vaill. A. G.* 1720. f. 47. 48. 49. *Water Hemp*  
*Agrimony.*

**CAL.** *Common imbricated, erect: the leaflets often equal, oblong, channel-concave.*

**COR.** *Compound uniform, tubular; corollets hermaphrodite, tubular. Proper funnel-form; the border five-cleft, erect.*

**STAM.** *Filaments five, capillary, very short. Anther cylindric, tubular.*

**PIST.** *Germ oblong. Style simple, the length of the stamens. Stigmas two, oblong, reflected.*

**PER.** *none. Calyx unchanged.*

**SEEDS** *solitary, obtuse, angular. Pappus with two awns or more, oblong, straight, acute, hook-rugged backward.*

**REC.** *chaffy, flat; the chaff deciduous.*

**OBS.** *In many species an expanding five-leaved calycle surrounds the compound flower.*

*Verbesina differs from Bidens in the ray only.*

*The corol is sometimes furnished with one or two ray'd florets. R.*

933. **CACÁLIA.** \* *Vaill. A. G.* 1719. *Tournef.* 258.  
*Kleinia edit. prior. Cacalianthemum Dill. elth.*  
 54. 55. *Is it not Tithymaloides? Klein monagr.*  
*Porophyllum Vaill. A. G.* 1719. t. 20. f. 39.  
*Alpine Colt's foot.*

**CAL.** *Common simple, oblong, subcalyced only at the base, cylindric: the scales five to ten, equal, lance-linear, constituting the tube; a few very short, incumbent on the base.*

**COR.** *Compound tubular; corollets hermaphrodite, the number of the longer calyx-leaves, uniform.*

*Proper funnel-form, gradually attenuated into a tube: the border five-cleft, erect.*

**STAM.** *Filaments five, capillary, very short. Anther cylindric, tubular.*

**PIST.** *Germ oblong. Style thread-form, the length of the stamens. Stigmas two, oblong, revolute.*

**PER.** *none. Calyx unchanged.*

**SEEDS** *solitary, oblong, egg-narrow. Pappus hairy, very long.*

**REC.** *naked, flat, dotted.*

**OBS.** *C. alpina (alpine) differs in the leaflets of the calyx being glued together; and the corollets four-cleft. R.*

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934. **ETHU-**

934. ETHÜLIA. \* Sparganophorus Vaill. A. G.  
1719.

CAL. Common many-leaved, rounded, simple: the leaflets 15, linear, subequal, expanding.

COR. Compound tubular; corollets hermaphrodite, uniform, distant in space.

Proper funnel-form: the border five-cleft, erect.

STAM. Filaments five, very short, capillary. Anther cylindric, tubular.

PIST. Germ prismatic. Style thread-form, the length of the stamens.

Stigmas two, recurved.

PER. none. Calyx unchanged.

SEEDS solitary, lop'd, top-shape, five-corner'd, five-furrow'd. Pappus none, but a prominentish margin.

REC. naked, convex, excavated in dots.

935. EUPATORIUM. \* Tournef. 259. Vaill. A.G.  
1719. Dill. elth. 114. Hemp  
Agrimony.

CAL. Common oblong, imbricated: the scales line-lanced, erect, unequal.

COR. Compound uniform, tubular: the Corollets hermaphrodite, equal.

Proper funnel-form: the border five-cleft, expanded.

STAM. Filaments five, capillary, very short. Anthers cylindric, tubular.

PIST. Germ very small. Style thread-form, very long, two-cleft quite to the stamens, straight. Stigmas slender.

PER. none. Calyx unchanged.

SEEDS oblong. Pappus feathery, long.

REC. naked.

OBS. E. maculatum (spotted) has a hairy pappus.

936. AGÉRATUM. \* Carelia Pont. *dis.* False  
Hemp Agrimony.

CAL. Common oblong: the scales many, lanced, subequal.

COR. Compound uniform: the Corollets hermaphrodite, tubular, numerous, equal, scarcely longer than the calyx.

*Proper funnel-form: the border four-cleft, expanded.*

STAM. Filaments five, capillary, very short. Anther cylindric, tubular.

PIST. Germ oblong. Style thread-form, the length of the stamens.

*Stigmas two, very slender, erect.*

PER. none. Calyx unchanged.

SEEDS solitary, oblong, angular. Pappus five-awn'd, expanding with a pointed proper calycle.

REC. naked, convex, very small.

OBS. It differs from Eupatorium in the Crown of the Seeds, from Bidens in the naked receptacle.

937. PTERONIA. † Pterophorus (Wing-bearer)  
Vaill. A.G. 1719. Wing-wort.

CAL. Common imbricated: the scales lanced, keel'd, pointed.

COR. Compound uniform; Corollets hermaphrodite, tubular, numerous, equal.

*Proper funnel-form; the border five-cleft, acute.*

STAM. Filaments five, capillary, very short. Anther cylindric, tubular.

PIST. Germ oblong. Style thread-form, the length of the stamens.

*Stigma two-cleft.*

PER. none. Calyx unchanged.

SEEDS solitary, oblong, compress'd. Pappus sessile, subplumy: with rays somewhat hairy.

REC. bristly, flattish: the chaff many-parted into bristles, shorter than the seeds.

OBS. P. oppositifolia (opposite-leaved) differs in two longish stigmas; a bristly, hispid pappus; a chaffy receptacle. R.

## 938. STÆHELINA. †

CAL. Common oblong, cylindric, imbricated: the scales lanced, erect, terminated by a shorter colour'd scalelet.

COR. universal compound, tubular. Corollets hermaphrodite, equal. Proper one-petal'd, funnel-form: the border five-cleft, equal, acute, bell'd.

STAM. Filaments five to each, capillary. Anthers tail'd.

PIST. Germ very short. Style thread-form. Stigma double, oblong, obtuse, erect.

PER. none. Calyx unchanged.

SEEDS solitary, oblong, very short, four-corner'd. Pappus branchy or cleft, with a longer calyx.

REC. chaffy, flat: the chaff very short, permanent.

OBS. S. gnaphaloides (gnaphalium-like) has the calyx parched, style two-cleft, pappus feathery conjoined at the base.

S. dubia (dubious) has a simple stigma, pappus hairy conjoined at the base.

S. arborescens (arborescent) has the calyx imbricated with awnless scales, pappus branched and feathery, chaff many parted, florets naked, neuter. R.

## 939. CHRYSÓCOMA. \* Chrysocome Dill. gen. 14.

Coma aurea Boerb. 1. p. 121. Goldy Locks.

CAL. Common hemispheric, imbricated: the scales linear, convex without, pointed.

COR. Compound tubular, longer than the calyx. Corollets hermaphrodite, tubular, numerous, equal.

Proper funnel-form: the border five-cleft, revolute.

STAM. Filaments five, thread-form, very short. Anther cylindric, tubular.

PIST. Germ oblong, crowned. Style thread-form, scarcely longer than the florets. Stigmas two, oblong, depress'd, involute.

PER. none. Calyx scarcely changed.

SEEDS solitary, egg-oblong, compress'd, Pappus hairy.

REC. naked, flat.

OBS. C. Linosyris has a ragged calyx.

C. oppositifolia (opposite-leaved) differs as much from the Chrysocomas as it agrees with Pteronia oppositifolia (opposite-leaved) in its external appearance calyxes, stem, and the rest; but this has a naked receptacle. Syst. Veg. 615. R.

C. graminifolia (grass-leaved) varies in the flowers, being flosculous and ray'd with a blue ray. R.

## 940. TAR-

940. TARCHONANTHUS. \* *Shrubby African Fleabane.*

- CAL. *Common* top-shape, one-leaved, half-sevencleft (oftner), colour'd internally, shorter than the corol, acutish, permanent.
- COR. *Compound* uniform, with about twenty florets: *corollets* hermaphrodite, numerous, equal.  
*Proper* one-petal'd, funnel-form, five-tooth'd.
- STAM. *Filaments* five, capillary, very short. *Anther* cylindric, tubular, the length of the corollet, tail'd at the base,
- PIST. *Germ* above, oblong. *Style* twice the length of the flower. *Stigmas* two, gaping.
- PER. none. *Calyx* unchanged.
- SEEDS solitary, oblong. *Pappus* hairy every where cloathing the seed.
- REC. hairy, very small, the hairs the length of the calyx.
- OBS. *It has a singular Pappus, which does not crown, but cloath the seed.*

## 941. CÂLEA. †

- CAL. *Common* imbricated: the *scales* oblong, loofish.
- COR. *Compound* uniform. *Corollets* hermaphrodite, very numerous, equal.  
*Proper* funnel-form: the *border* five-cleft.
- STAM. *Filaments* five, capillary, very short. *Anther* cylindric, tubular.
- PIST. *Germ* oblongish. *Style* thread-form, the length of the corollet. *Stigmas* two, recurvate, acute.
- PER. none. *Calyx* unchanged.
- SEEDS solitary, oblong. *Pappus* hairy, the length of the calyx.
- REC. chaffy: the *chaff* rather longer than the calyx, eminent among the florets.

945. SANTOLINA. \* *Tournef.* 260. *Vaill.* A.G.  
1719. *Lavender Cotton.*

CAL. *Common* hemispheric, imbricated: the *scales* egg-oblong, acute, appress'd.

COR. *Compound* uniform, longer than the calyx. *Corollets* hermaphrodite, equal, numerous.

*Proper* funnel-form; the *border* five-cleft, revolute.

STAM. *Filaments* five, capillary, very short. *Anther* cylindric, tubular.

PIST. *Germ* four-corner'd, oblong. *Style* thread-form, the length of the stamens. *Stigmas* two, oblong, depress'd, lop'd.

PER. none. *Calyx* unchanged.

SEEDS solitary, oblong, four-corner'd. *Pappus* none.

REC. chaffy, flattish; the *chaff* concave.

OBS. *S. alpina* (*alpine*) differs in the flowers wanting female florets. R.

943. ATHANASIA. \* *Baccharis Vaill.* A.G. 1719.

CAL. *Common* imbricated, egg'd; the *scales* lanced, appress'd.

COR. *Compound* uniform, longer than the calyx. *Corollets* hermaphrodite, equal, numerous.

*Proper* funnel-form; the *border* five-cleft, acute, erectish.

STAM. *Filaments* five, capillary, very short. *Anther* cylindric, tubular.

PIST. *Germ* oblongish. *Style* thread-form, rather longer than the stamen. *Stigma* two-cleft, obtuse.

PER. none. *Calyx* unchanged.

SEEDS solitary, oblong. *Pappus* chaffy from very short bristles.

REC. chaffy; the *chaff* lanced, longer than the seed.

OBS. Of *A. maritima* (*sea*) the two-edged seeds are destitute of a pappus. R.

## II. SUPERFLUOUS POLYGAMY.

*(Polygamia superflua.)*944. TANACETUM. \* *Tournef.* 261. *Vaill.* A.G.1719. *Balsamita Vaill.* A.G.1719. *Tansey.* *Ale-cost.*

CAL. Common hemispheric, imbricated: the scales acute, compact.

COR. Compound tubular, convex. Corollets hermaphrodite, numerous, tubular, in the disk. Female ones few in the ray.

*Proper of the Hermaphrodites* funnel-form; the border five-cleft, reflected.Of the *Females* three-cleft, more deeply divided inward.

STAM. In the hermaphrodites. Filaments five, capillary, very short. Anther cylindric, tubular.

PIST. In the hermaphrodites. Germ oblong, small. Style thread-form, the length of the stamens. Stigmas two-cleft, revolute.

In the *Females*. Germ oblong. Style simple. Stigmas two, reflected.

PER. none. Calyx unchanged.

SEEDS solitary, oblong. Pappus submargined.

REC. convex, naked.

OBS. There are sometimes no corollets of the ray, and all the florets are hermaphrodite.

The Seed in some is naked.

945. ARTEMISIA. \* *Tournef.* 260. *Vaill.* A.G. 1719. f. 23. 31. 36. 41.  
*Abrotanum Tournef.* *Abfinthium Tournef.* 260. *Vaill.* A.G. 1719. f. 32. *Mugwort,*  
*Wormwood, Southern-wood.*

CAL. *Common* roundish, imbricated: the *scales* rounded, converging.

COR. *Compound*: *Corollet* hermaphrodite, tubular, numerous, in the disk. Female ones nearly petalless, in the circumference.

*Proper of the hermaphrodite funnel-form*: the border five-cleft.

STAM. In the hermaphrodites *Filaments* five, capillary, very short. *Anther* cylindric, tubular, five-tooth'd.

PIST. In the hermaphrodites *Germ* small. *Style* thread-form, the length of the stamens. *Stigma* two-cleft, revolute.

In the females *Germ* very small. *Style* thread-form, longer than in the hermaphrodites. *Stigma* similar to the hermaphrodite ones.

PER. none. *Calyx* scarcely changed.

SEEDS in the hermaphrodites solitary, naked.

In the females solitary, naked.

REC. flat, naked, or villous.

OBS. *Abfinthium T.* has a villous receptacle, and a more globular calyx.

*Abrotanum T.* has a naked receptacle.

*Artemisia T.* has also a naked receptacle.

946. GNAPHALIUM. \* *Elichrysum Tournesf.* 259.  
*Dill. elth.* 107. 108. *Heli-*  
*chrysum (Sun-gold) Vaill.*  
*A. G.* 1719. 21. 37. 38.  
*Cudweed, Everlasting.*

CAL. *Common* rounded, imbricated: the *scales* marginal, rounded, parched, coloured.

COR. *Compound*: *Corollets* hermaphrodite, tubular, sometimes mixed with petalless female ones.

*Proper* in the hermaphrodites, funnel-form: the *border* five-cleft, reflected.

In the *Females* (if any) there is no corol.

STAM. In the hermaphrodites *Filaments* five, capillary, very short. *Anther* cylindric, tubular.

PIST. In the hermaphrodites: *Germ* egg'd. *Style* thread-form, the length of the *stamens*. *Stigma* two-cleft.

In the *Females*: *Germ* egg'd. *Style* thread-form, the length of the hermaphrodites. *Stigma* two-cleft, reflected.

PER. none. *Calyx* permanent, glossy.

SEEDS In the hermaphrodites solitary, oblong, small, crowned with a pappus. In the *Females* similar to the hermaphrodites.

REC. naked.

OBS. In some the *Crown* of the seed is a capillary pappus, in others a feathery one.

*G. Arboreum (arborecent)* is distinguished by a *mooned receptacle*.

*There are species with flowers of the class two-house, a rare example in this class.*

947. XERANTHEMUM. \* *Tournef. (Dry-flower)*  
 284. *Dill. gen. 8. Vaill.*  
*A.G. 1718. Xeranthemo-*  
*moides Dill. elth. 322.*  
*Austrian Sneeze-wort.*  
*Eternal flower.*

**CAL.** *Common* imbricated: the *scales* lanced, of which the *inmost* are longer than the disk, membranous, glossy, constituting a coloured ray, crowning the compound flower.

**COR.** *Compound* unequal: *Corollets* hermaphrodite, very numerous, tubular in the disk. *Female ones* fewer, tubular, in the circumference.

*Proper* in the hermaphrodites funnel-form, much shorter than the calyx: the *border* five-cleft, expanded.

In the *Females* tubular, the length of the hermaphrodite, five-cleft, less equal.

**STAM.** In the hermaphrodites *Filaments* five, very short. *Anther* cylindric, tubular, nearly the length of the corollet.

**PIST.** In the hermaphrodites *Germ* short. *Style* thread-form, longer than the stamens. *Stigma* two-cleft.

In the *Females* *Germ* as in the hermaphrodites. *Style* thread-form, the length of the hermaphrodites. *Stigmas* two, oblong, reflected.

**PER.** none. *Calyx* scarcely changed.

**SEEDS** in the hermaphrodites oblong, crowned.

In the *Females* similar to the hermaphrodites.

**REC.** naked, flattish, dotted.

**OBS.** Of *Xeranthemum* T. *The Crown of the seed is five-bristled, simple. Receptacle chaffy.*

*Xeranthemoides* T. *The crown of the seed consists of a feather, or hairy pappus. Receptacle naked.*

648. CARPESÍUM. \* Conyzoides Tournef. act.  
1706.

CAL. Common imbricated: the exterior leaflets larger, expanded, reflected; the interior ones equal, crowded, shorter.

COR. Compound equal. Corollets hermaphrodite in the disk. Female in the circumference.

Proper in the hermaphrodites funnel-form: the border five-cleft, expanded.

In the females tubular, five-cleft, converging.

STAM. in the hermaphrodites Filaments five, short. Anther cylindric.

PIST. of the hermaphrodites Germ oblong. Style simple. Stigma two-cleft.

In the females very similar to the hermaphrodites.

PER. none. Calyx unchanged.

SEEDS in the hermaphrodites inverse-egg'd, naked.

In the females very similar to the hermaphrodites.

REC. naked.

## 949. BÁCCHARIS. Plowman's Spikenard.

CAL. Common cylindric, imbricated: the scales linear, acute.

COR. Compound equal, the Corollets hermaphrodite and female mixed. Proper in the hermaphrodites funnel-form, five-cleft.

In the females scarcely manifest, almost none.

STAM. in the hermaphrodites Filaments five, capillary, very small. Anther cylindric, tubular.

PIST. in the hermaphrodites Germ egg'd. Style thread-form, the length of the flower. Stigma two-cleft.

In the females very similar to the hermaphrodites.

PER. none. Calyx unchanged.

SEEDS in the hermaphrodites solitary, very short, oblong. Pappus simple.

In the females very similar.

REC. naked.

OBS. The Pappus in some is very long, in other species scarcely surpassing the calyx.

950. CONÝZA. \* *Flea Bane.*

CAL. Common imbricated, roundish, ragged: the *Scales* acute, the exterior ones rather more expanding.

COR. Compound tubular; *Corollets* hermaphrodite, numerous, tubular in the disk. *Female* ones petalless, roundish, in the circumference.

*Proper* of the hermaphrodites funnel-form: the *border* five-cleft, expanded.

In the *females* funnel-form: the *border* three-cleft.

STAM. in the hermaphrodites *Filaments* five, capillary, very short. *Anther* cylindric, tubular.

PIST. in the hermaphrodites; *Germ* oblong. *Style* thread-form, the length of the *stamens*. *Stigma* two-cleft.

In the *females*: *Germ* oblong. *Style* thread-form, the length of the hermaphrodite, slenderer. *Stigmas* two, very slender.

PER. none. *Calyx* converging.

SEEDS in the hermaphrodites solitary, oblong. *Pappus* simple.

In the *females* solitary, oblong. *Pappus* simple.

REC. naked, flat.

951. ERÍGERON. \* *Conyzoides* Dill. gen. *Conyzella* Dill. gen. *Less Flea Bane.*

CAL. Common oblong, cylindric, imbricated: the *scales* awl'd, erect, gradually longer, subequal.

COR. Compound ray'd; *Corollets* hermaphrodite, tubular, in the disk. *Female* ones tongued, in the ray.

*Proper* of the hermaphrodite funnel-form: the *border* five-cleft.

Of the *Females* tongued, linear, awl'd, erect, oftner most intire.

STAM. in the hermaphrodites; *Filaments* five, capillary, very short. *Anther* cylindric, tubular.

PIST. in the hermaphrodites *Germ* very small, crowned with a pappus longer than its corollet. *Style* thread-form, the length of the pappus. *Stigmas* two, oblong, revolute.

In the *females* *Germ* very small, with a pappus nearly equal in length to its corol. *Style* capillary, the length of the pappus.

*Stigmas* two, very slender.

PER. none. *Calyx* converging.

SEEDS in the hermaphrodites oblong, small. *Pappus* long, hairy.

In the *females* very similar to the hermaphrodites.

REC. naked, flat.

OBS. *Dillenius* observes that the inmost or intermediate florets of the disk, are oftner male.

There is a species with naked female florets.

## 952. TUS-

952. TUSSILAGO. \* *Tournef.* 279. *Vaill. A.G.* 1720. f. 46. *Petasites Tournef.* 258. *Vaill. A.G.* 1719. *Colt's-foot. Butterburr.*

CAL. Common cylindric; the *scales* lance-linear, (fifteen or twenty), equal, equalling the disk, submembranous.

COR. Compound various.

*Corollets* in some are all hermaphrodite tubular, or only in the disk.

In some no *females*, in others tongued ones.

*Proper* of the hermaphrodites funnel-form; the *border* five-cleft, (or four-cleft), acute, reflected, longer than the calyx.

Of the *females* none or tongued, very narrow, longer than the calyx, intire.

STAM. in the hermaphrodites; *Filaments* five, capillary, very short. *Anther* cylindric, tubular.

PIST. in the hermaphrodites; *Germ* short. *Style* thread-form, longer than the stamen. *Stigma* thickish.

In the *females*; *Germ* short. *Style* thread-form, the length of the hermaphrodites. *Stigma* two-cleft, thickish.

PER. none. *Calyx* scarcely changed.

SEEDS. in the hermaphrodites solitary, oblong, compress'd. *Pappus* hairy, stiped.

In the *females*, if any, very similar to the hermaphrodites.

REC. naked.

QBS. *Petasites* T. wants the *ligulate florets* in the ray, tho' in some there are naked female ones.

*Tussilago* T. is always furnished with female florets in the ray, endued with a tongued corol.

*Anandria* has a sessile pappus.

*T. frigida* (frigid) varies in its *flosculous* and ray'd flowers.

953. SENÉCIO. \* *Tournef.* 260. *Dill. elth.* 258.  
*Vaill. A.G.* 1719. *Jacobæa Tournef. Grounsel. Ragwort.*

CAL. Common calyced, conic, lop'd; the *scales* awl'd, very numerous, parallel in a cylinder contracted above, contiguous, equal, fewer covering the base imbricatewise, with dead tops (sphacelated).

COR. Compound higher than the calyx; *Corollets* hermaphrodite, tubular, numerous in the disk. *Female* ones tongued in the ray, if any present.

*Proper* of the hermaphrodites funnel-form: the border reflected, five-cleft.

In the *females* (if any) oblong, obscurely three-toothed.

STAM. in the hermaphrodites *Filaments* five, capillary, very small. *Anther* cylindric, tubular.

PIST. in both; *Germ* egg'd. *Style* thread-form, the length of the stamens. *Stigmas* two, oblong, revolute.

PER. none. *Calyx* cone-converging.

SEEDS in the hermaphrodites solitary, egg'd. *Pappus* simple, long. In the *females* very like the hermaphrodite.

REC. naked, flat.

OBS. Senecio T. wants the common ray of the corol.

*Jacobæa* T. is furnished with the common ray of the corol.

954. ÁSTER. \* *Tournef.* 474. *Vaill. A.G.* 1720.  
*Dill. elth.* 36. f. 41. *Star.*

CAL. Common imbricated; the interior *scales* prominentish at the top, the inferior ones expanded.

COR. Compound ray'd: *Corollets* hermaphrodite numerous in the disk. *Female* ones tongued, more than ten, in the ray.

*Proper* of the hermaphrodites funnel-form; the border five-cleft, expanded.

Of the *females* tongued, lanced, three-toothed.

STAM. in the hermaphrodites; *Filaments* five, capillary, very short. *Anther* cylindric, tubular.

PIST. in the hermaphrodites; *Germ* oblong. *Style* thread-form, the length of the stamens. *Stigma* two-cleft, expanding.

In the *females*; *Germ* oblong. *Style* thread-form, the length of the hermaphrodites. *Stigmas* two, oblong, revolute.

PER. none. *Calyx* scarcely changed.

SEEDS in the hermaphrodites solitary, oblong, egg'd. *Pappus* hairy. In the *females* similar to the hermaphrodites.

REC. naked, flattish.

OES. *A. chinensis* (*china*) differs something from its kindred. R.

955. SOLIDAGO. \* *Vaill. A. G. 1720. f. 5. 46.*  
*18. Virga aurea Tournef. 275.*  
*Vaill. A. G. 1720. Doria Dill.*  
*gen. 8. elth. 104. 105. Golden Rod.*

CAL. Common oblong, imbricated; the scales oblong, narrow, pointed, straight, converging.

COR. Compound ray'd. Corollets hermaphrodite, tubular, very numerous in the disk.

*Female ones tongued, fewer than ten (oftner five), in the ray.*  
*Proper of the hermaphrodites funnel-form: the border five-cleft, expanded.*

*Of the females tongued; lanced, three-toothed.*

STAM. in the hermaphrodites; Filaments five, capillary, very short.  
*Anther cylindric, tubular.*

PIST. in the hermaphrodites; Germ oblong. Style thread-form, the length of the stamens. Stigma two-cleft, expanding.

*In the females; Germ oblong. Style thread-form, the length of the hermaphrodite. Stigmas two, revolute.*

PER. none. Calyx scarcely changed.

SEEDS in the hermaphrodites solitary, inverse-egg-oblong. Pappus simple  
*In the females very similar to the hermaphrodites.*

REC. flattish, naked.

957. CINERARIA. \* (*Ash-colour*) Sky Flower.

CAL. Common simple, many-leaved: the leaflets equal.

COR. Compound ray'd. Corollets hermaphrodite, equal, numerous, in the disk. *Female ones tongued, the number of the leaves of the calyx, in the ray.*

*Proper of the hermaphrodites funnel-form; the border five-cleft, erect.*

*Of the Females tongued, lanced, toothletted at the top.*

STAM. in the hermaphrodites; Filaments five, thread-form, short.  
*Anther cylindric, tubular, five-cleft at the top.*

PIST. in the hermaphrodites: Germ oblong. Style thread-form, the length of the stamens. Stigmas two, erectish.

*In the females: Germ oblong. Style thread-form, short. Stigmas two, oblong, obtusish, revolute.*

PER. none. Calyx unchanged.

SEEDS in the hermaphrodites solitary, linear, quadrangular. Pappus hairy, copious.

*In the females very similar to the hermaphrodites.*

REC. naked, flattish.

OBS. C. purpurata (purple) has a feathery pappus. Mant. 285. R.  
 956. INU-

956. *INULA*. \* *Enula Cæsalp. Magnol. Helenium*  
*Vaill. A.G. 1720. Moris. Raj. Herm.*  
*Rivin. Elecampane. Marsh Fleabane.*

*CAL.* Common imbricated: the leaflets loose, expanded: the exterior ones larger, of equal length.

*COR.* Compound ray'd, broad. Corollets hermaphrodite, equal, very numerous in the disk. Female ones tongued, numerous, crowded in the ray.

Proper of the hermaphrodites funnel-form; the border five-cleft, erectish.

Of the Females tongued, linear, most intire.

*STAM.* in the hermaphrodites; Filaments five, thread-form, short. Anther cylindric, composed of five less, linear, coalesced anthers; each ending below in two straight bristles the length of the filaments.

*PIST.* in the hermaphrodites; Germ long. Style thread-form, the length of the stamens. Stigma two-cleft, erectish.

In the females; Germ long. Style thread-form, half-two-cleft. Stigmas erect.

*PER.* none. Calyx unchanged.

*SEEDS* in the hermaphrodites solitary, linear, quadrangular. Pappus simple, the length of the seed.

In the females similar to the hermaphrodites.

*REC.* naked, flat.

*OBS.* Therefore it not only differs from the Aster in the Anthers ending below in ten bristles but from other known plants.

## 958. ARNICA. \*

CAL. Common imbricated, shorter than the ray of the corol: the leaflets lanced, the length of the calyx, erect.

COR. Compound ray'd. Corollets hermaphrodite very numerous in the disk. Female ones about twenty, in the ray.

Proper of the hermaphrodites tubular, erect, five-cleft, equal.

Of the Females lanced, very long, three-tooth'd, expanding.

STAM. in the hermaphrodites: Filaments five, very short. Anther cylindric.

In the females: Filaments five, awl'd, erect. Anthers none.

PIST. in the hermaphrodites: Germ oblong. Style simple, the length of the stamens. Stigma two-cleft.

In the females very similar to the hermaphrodites.

PER. none. Calyx unchanged.

SEEDS in the hermaphrodites solitary, oblong. Pappus hairy, pubescent, long.

In the females very similar to the hermaphrodites. Pappus hairy.

REC. naked.

OBS. The Corollets of the disk are often three-cleft; the exterior division twice as broad.

2. In *A. montana* (mountain) Haller finds no filaments in the ray, neither do I see any. R.

959. DORONICUM. \* *Tournef.* 277. *Vaill. A. G.*  
1720. f. 41. 14. *Bellidiastrum*  
*Mich.* 29. *Leopard's bane.*

CAL. *Common* with leaflets lance-awl'd, about twenty, equal, erect, of a double series, oftner the length of the ray of the corol.

COR. *Compound* ray'd: *Corrollets* hermaphrodite tubular, numerous, in the disk. *Female* ones tongued, the number of the leaves of the calyx, in the ray.

*Proper* of the hermaphrodites funnel-form; the border five-cleft, expanded.

Of the *females* tongued, lanced, three-toothed.

STAM. in the hermaphrodites: *Filaments* five, capillary, very short. *Anther* cylindric, tubular.

PIST. in the hermaphrodites: *Germ* oblong. *Style* thread-form, the length of the stamens. *Stigma* end-nick'd.

In the *females*: *Germ* oblong. *Style* thread-form, the length of the hermaphrodite. *Stigmas* two, reflected.

PER. none. *Calyx* slightly converging.

SEEDS in the hermaphrodites solitary, inverse-egg'd, compress'd, furrow'd. *Pappus* hairy.

In the *females* solitary, inverse-egg'd, furrow'd, rather compress'd. *Pappus* none.

REC. naked, flat.

## 960. PERDÍCIUM. † Trixis Brown.

CAL. Common oblong, imbricated: the leaflets lanced: the interior ones scarcely longer than the corol.

COR. Compound imbricated, ray'd: Corollets hermaphrodite in the disk. Female in the ray.

Proper of the hermaphrodites tubular, half-two-cleft: the interior lip two-parted, pointed, equal: the exterior lip half-three-cleft, linear, equal.

Of the Females linear, tongued, three-tooth'd: two-tooth'd within at the base.

STAM. in the hermaphrodites: Filaments five, short. Anther cylindric, tubular, five-tooth'd.

PIST. in the hermaphrodites: Germ small. Style simple. Stigma two-cleft, obtuse.

In the females: Germ small. Style half-two-cleft. Stigmas obtuse.

PER. none. Calyx unchanged.

SEEDS solitary, inverse-egg'd. Pappus capillary, sessile, very copious, the length of the calyx, level-top'd.

REC. naked.

Obs. The flower resembles a semiflosculous corol, though it is really ray'd.

P. semifloclulare (semifloscular) affords the most distinct character to the genus.

P. radiale (radiate) agrees in the two-lip'd florets, differs in the whole habit.

P. brasiliense (brasilian) has both subradiate and flosculous flowers in the disk, and two-lip'd hermaphrodite ones in the ray. K.

## 1421. MUTÍSIA. S.

CAL. Common oblong, cylindric, imbricated, the scales lanced, the interior ones longer.

COR. Compound ray'd. Florets of the disk thrice as many. Corollets tubular, three-cleft, the exterior division lanced, the interior ones linear. Florets of the ray eight. Corollets oval-oblong, intire. Claw linear.

STAM. of the disk; Filaments five, linear. Anther cylindric, longer than the floret, with decurrent bristles at the base. Of the Ray, none, two rudiments of filaments.

PIST. of the Disk, Germ short. Style thread-form. Stigma simple, of the Ray, Germ short. Style thread-form. Stigmas two, bristly.

PER. none.

SEEDS oblongish. Pappus feathery.

REC. naked.

961. HELÉNIUM. \* *Heleniastrum Vaill. A. G.*  
1720. *False Sun flower.*

CAL. Common simple, one-leaved, many-parted, expanding: the leaflets about twenty, gradually attenuated.

COR. Compound ray'd. Corollets hermaphrodite, numerous, in the disk. Female ones the number of the divisions of the calyx, in the ray.

Proper in the hermaphrodites tubular, shorter than the calyx, five-tooth'd.

Of the Females tongued, broader without, three-cleft at the top, longer than the calyx.

STAM. in the hermaphrodites: Filaments five, capillary, very short. Anther cylindric, tubular.

PIST. in the hermaphrodites: Germ oblong. Style thread-form, the length of the stamens. Stigma two-cleft.

In the females Germ oblong. Style very short. Stigma two-cleft.

PER. none. Calyx unchanged.

SEEDS in the hermaphrodites solitary, inverse-egg'd, angular. Pappus with a five-tooth'd, small calycle.

In the females very similar to the hermaphrodites.

REC. naked, convex: the calyx-chaff only seperating the florets of the ray.

962. BELLIS. \* *Tournef. 280. Vaill. A. G. 1720.*  
*f. 16. 20. Bellis Leucanthemum*  
*Mich. gen. 29. Daisy.*

CAL. Common hemispheric, erect: the leaflets ten to twenty, placed in a double series, lanced, equal.

COR. Compound ray'd. Corollets hermaphrodite, tubular, numerous in the disk. Female ones tongued, more than the leaves of the calyx, in the ray.

Proper of the hermaphrodite funnel-form, five-tooth'd.

Of the Females tongued, lanced, scarcely three-tooth'd.

STAM. in the hermaphrodites; Filaments five, capillary, very short. Anther cylindric, tubular.

PIST. in the hermaphrodites; Germ egg'd. Style simple. Stigma end-nick'd.

Of the females Germ egg'd. Style thread-form. Stigmas two, expanded.

PER. none. Calyx unchanged.

SEEDS in the hermaphrodites, solitary, inverse-egg'd, compress'd. Pappus none.

In the females similar to the hermaphrodites.

REC. naked, conic.

## 1322. BÉLLIUM. \*

CAL. Common with leaflets very numerous, equal, boat-form.

COR. Compound ray'd. In the Ray females 10 or 12. In the Disk hermaphrodites very numerous.

Proper of the hermaphrodites funnel-form, four-cleft, erect.

Of the females elliptic, end-nick'd, tongued.

STAM. in the hermaphrodites; Filaments four, short. Anthers cylindric.

PIST. in the hermaphrodites; Germ top-shape. Style thread-form. Stigma two-cleft, oblong.

In the females Germ top-shape. Style very short. Stigma two-cleft, minute.

PER. Calyx unchanged.

SEEDS in the hermaphrodites top-shape: the crown chaffy, eight-leaved, rounded. Pappus with eight simple awns.

In the females very similar to the hermaphrodites.

REC. naked, conic.

OBS. On account of the pappus and four-cleft corollets it differs from *Bellis* and *Pectis*.

## 964. TAGÉTES. \* Tournef. 278. Vaill. A. G. 43. 15. Dill. elth. 280. 279. African Marygold.

CAL. Common very simple, one-leaved, tubular, oblong, five-corner'd, five-tooth'd.

COR. Compound ray'd: Corollets hermaphrodite, tubular, many, in an elevated disk. Female ones tongued, five, in the ray.

Proper in the hermaphrodites tubular, half-fivecleft, erect, longer than the calyx: the divisions linear, villous within.

In the females tongued, longer than the hermaphrodite, nearly equal in length and breadth, most obtuse, narrower towards the tube, downy, permanent.

STAM. in the hermaphrodite; Filaments five, capillary, very short. Anther cylindric, tubular.

PIST. in the hermaphrodites: Germ oblong. Style thread-form, the length of the stamens. Stigma two-cleft, slender, reflected.

In the females Germ oblong. Style thread-form, the length of the hermaphrodite. Stigma two-cleft, slender, reflected.

PER. none. Calyx unchanged.

SEEDS in the hermaphrodites solitary, linear, compress'd, rather shorter than the calyx. Pappus with five, erect, pointed, unequal awns.

In the females similar to the hermaphrodites.

REC. naked, small, flat.

963. LEYSÉRA. † *Asteropterus Vaill.* 1720.  
*Star-wing.*

CAL. Common egg'd, imbricated: the *scales* obtuse, concave, parched.

COR. Compound ray'd: *Corollets* hermaphrodite tubular, many, in the disk. *Female* ones tongued, many, in the ray.

*Proper* of the hermaphrodites funnel-form, five-cleft, erectish.

Of the *females* tongued, lanced, intire.

STAM. in the hermaphrodites: *Filaments* five, capillary, very short. *Anther* cylindric, tubular.

PIST. in the hermaphrodites: *Germ* small. *Style* thread-form. *Stigma* end-nick'd.

In the *females*: *Germ* small. *Style* thread-form, short. *Stigma* two-cleft.

PER. none. *Calyx* unchanged.

SEEDS in the hermaphrodites solitary, oblong. *Pappus* feathery, five-bristled, long, within which there is a very short chaffy crown.

In the *females* very similar. *Pappus* with a chaffy crown only without feathers.

REC. naked. *Chaff* separating only the *florets* of the ray.

OPS. L. *paleacea* (chaffy) differs something from its congeners. *Syst. Veg.* 641. R.

## 964. ZINNIA.

CAL. *Common* egg-cylindric, polish'd, imbricated: the *scales* very numerous, obtuse, erect, permanent.

COR. *Compound* ray'd: *Corollets* hermaphrodite, many, in an elevated disk. *Female* ones five to ten, in the ray.

*Proper* of the hermaphrodites funnel-form, five-cleft, villous within.

Of the *females* tongued, roundish, retuse, larger than the disk, permanent.

STAM. in the hermaphrodites; *Filaments* five, very short. *Anther* cylindric, tubular.

PIST. in the hermaphrodite; *Germ* oblong, awned; one awn longer. *Style* thread-form, half-twocleft. *Stigmas* two, erect, obtuse.

In the *females*: *Germ* oblong, three-sided, awnless. *Style* capillary, half-twocleft. *Stigmas* two, recurvate.

PER. *Calyx* unchanged.

SEEDS in the hermaphrodites solitary, oblong, four-corner-two-edged. *Pappus* with two daggers: one awn'd.

In the *females* solitary, awnless, crowned with the permanent petal.

REC. chaffy; the *chaff* tongued, channel'd, the length of the calyx, deciduous.

## 965. PÉCTIS.

CAL. *Common* five-leaved, cylindric: the *leaflets* five, lanced, obtuse, subequal.

COR. *Common* ray'd. *Corollets* hermaphrodite, about six. *Feminine* five in the ray.

*Proper* in the hermaphrodites funnel-form, five-cleft.

In the *females* tongued, egg'd, shorter than the calyx.

STAM. in the hermaphrodites: *Filaments* five, short. *Anther* cylindric, tubular.

PIST. in the hermaphrodites: *Germ* linear. *Style* thread-form. *Stigma* two-cleft.

In the *females*: *Germ* linear. *Style* thread-form. *Stigmas* two, revolute.

PER. *Calyx* unchanged.

SEEDS in the hermaphrodites solitary, linear. *Pappus* awn'd.

In the *females* very similar to the hermaphrodites.

REC. naked.

966. CHRYSANTHEMUM. \* *Tournef.* 280. *Leucanthemum Tournef.*  
*Bellidioides Vaill. A.*  
*G. 1720. f. 17. 23. 31.*  
*Corn Marygold. Ox-*  
*eye Daisy.*

**CAL.** *Common hemispheric, imbricated: the scales closely incumbent: the interior ones larger by degrees: the inmost terminated by a parched scale.*

**COR.** *Compound ray'd; Corollets hermaphrodite, tubular, numerous, in the disk. Feminine more than twelve in the ray.*

*Proper in the hermaphrodites funnel-form, five-cleft, expanded, the length of the calyx.*

*In the females tongued, oblong, three-tooth'd.*

**STAM.** *in the hermaphrodites Filaments five, capillary, very short. Anther cylindric, tubular, rather shorter than the corol.*

**PIST.** *in the hermaphrodites: Germ egg'd. Style thread-form, longer than the stamens: Stigmas two, revolute.*

*In the females Germ egg'd. Style thread-form, equal to the hermaphrodite one. Stigmas two, obtuse, revolute.*

**PER.** *none. Calyx unchanged.*

**SEEDS** *in the hermaphrodites solitary, oblong. Pappus none.*

*In the females most similar to the hermaphrodites.*

**REC.** *naked, dotted, convex.*

**OBS.** *Of Leucanthemum T. The female corollets are lanced the calyx-membranes narrow.*

*Of Chrysanthemum T. the female corollets are egg-lop'd, and the calyx-membranes egg'd.*

*C. flosculosum (fiosculosus) is destitute of the ray.*

*C. Leucanthemum the seeds are black with white strias, the head yellow cylindric hollow. R.*

*C. Balsamina has nearly the calyx of Achillea; with no pappus. R.*

*C. Myconis (of myco) the seeds have a membranous crown. R.*

## 1420. UNXIA. S.

- CAL. *Perianth* roundish, five-leaved: *leaflets* egg'd.  
 COR. *Compound*, ray'd: the ray obscure.  
*Florets of the Disk* male, five, funnel-form, five-cleft.  
*Florets of the ray* feminine, five, egg'd, small.  
 STAM. in the males as in the class confederate males.  
 PIST. *Germ* in each egg'd. *Style* simple. *Stigma* two-cleft.  
 PER. *Calyx* unchanged.  
 SEEDS in all egg'd, hard, naked.  
 REC. naked.

967. MATRICARIA. \* *Tournef.* 231. *Vaill. A.G.*  
1720. *Fever-few.*

- CAL. *Common* hemispheric; the *scales* linear, imbricated, subequal, not parched.  
 COR. *Compound* ray'd: *Corollets* hermaphrodite, tubular, numerous, in an hemispheric disk. *Feminine* in the ray, many.  
*Proper* of the hermaphrodites funnel-form, five-cleft, expanding.  
*Of the females* oblong, three-tooth'd.  
 STAM. in the hermaphrodites; *Filaments* five, capillary, very short.  
*Anther* cylindric, tubular.  
 PIST. in the hermaphrodites; *Germ* oblong, naked. *Style* thread-form, the length of the stamens. *Stigma* two-cleft, expanding.  
 In the females *Germ* naked. *Style* thread-form, nearly the length of the hermaphrodite one. *Stigmas* two, revolute.  
 PER. none. *Calyx* unchanged.  
 SEEDS in the hermaphrodites solitary, oblong. *Pappus* none.  
 In the females most similar to the hermaphrodites.  
 REC. naked, convex.

968. COTULA. \* *Vaill. A. G.* 1719. f. 3. 21. 15.  
*Ananthocyclus Vaill. A. G.* 1719.  
 f. 5. 24. *Dill. elth.* 23. f. 25. 26.  
*Lancifia. Pont. diss.*

CAL. Common convex, divided into about sixteen egg'd parts, of which eight are exterior : of these the inferior are rather larger than the interior.

COR. Compound the length of the calyx, rather convex : the corollets hermaphrodite in the disk numerous. *Feminine* in the circumference more than twenty.

*Proper* in the hermaphrodites tubular, four-cleft, unequal : the outmost division larger. In the *females* nearly none.

STAM. in the hermaphrodites ; *Filaments* four, very small. *Anther* tubular, the length of the corollet.

PIST. in the hermaphrodites ; *Germ* inverse-egg'd. *Style* thread-form, *Stigmas* two, obtuse.

In the *Females* : *Germ* inverse-egg'd, compress'd, two-edged, larger. *Style* thread-form, the length of the hermaphrodite one. *Stigmas* two, simple.

PER. none. *Calyx* unchanged, permanent.

SEEDS in the hermaphrodites solitary, less, egg-threecorner'd, with an obscure interior angle. *Pappus* margined.

In the *females* solitary, larger, hearted, flat on one side, on the other gibbous, girt with an obtuse margin. *Pappus* margin'd.

REC. nearly naked, flat.

OBS. In some the flowers are flosculous, in others ray'd. R.

*C. capensis (cape)* the calyx is imbricated, rather parched. R.

969. ANACYCLUS. \* Santolinoides Vaill. A. G.  
1719. *Mich. gen.* 31. *Cotula*  
*Tournef.* 282.

CAL. Common hemispheric, imbricated : the Scales numerous, egg'd, flat, acute.

COR. Compound ray'd; Corollets hermaphrodite, numerous, in the disk. Female five to ten in the circumference, scarcely higher than the disk.

Proper of the hermaphrodites funnel-form : the border five-cleft, expanded.

Of the females : the tube compress'd : the border egg'd, intire.

STAM. in the hermaphrodites ; Filaments five, capillary, very short. Anther cylindric, tubular.

PIST. in the hermaphrodites ; Germ oblong, compress'd. Style thread-form, the length of the stamens. Stigma two-cleft.

In the females : Germ oblong, augmented by a membrane on both sides. Style thread-form, the length of the corollet. Stigmas two, slender, reflected.

PER. none. Calyx unchanged.

SEEDS in the hermaphrodites solitary, oblong, compress'd. Pappus none.

In the females solitary, oblong, with a very broad membranous wing on both sides, end-nick'd at the top. Pappus none.

REC. chaffy : the chaff obtuse with a point.

OBS. A. *orientalis* (oriental) has a naked receptacle. Vaillant's is therefore of doubtful genus. R.

970. *ANTHEMIS*. \* *Chamæmelum Tournef.* 281.  
*Vaill. A. G.* 1720. f. 31. 33. 17. *Anthemis Mich.*  
*gen.* 30. *Buphthalmum Tournef.* 282. *Chamomile.*

CAL. *Common* hemispheric: the *scales* linear, subequal.

COR. *Compound* ray'd; *Corollets* hermaphrodite, tubular, numerous in a convex disk. *Feminine* more than five in the ray.

*Proper* of the hermaphrodite funnel-form, five-tooth'd, erect.

Of the *Females* tongued, lanced, sometimes three-tooth'd.

STAM. in the hermaphrodites; *Filaments* five, capillary, very short.  
*Anther* cylindric, tubular.

PIST. in the hermaphrodites *Germ* oblong. *Style* thread-form, the length of the stamens. *Stigmas* two, reflected.

In the *females* *Germ* oblong. *Style* thread-form, the length of the hermaphrodite one. *Stigmas* two, revolute.

PER. none. *Calyx* unchanged.

SEEDS in the hermaphrodites solitary, oblong. *Pappus* none.

In the *females* most similar to the hermaphrodites.

REC. chaffy, conic.

971. *ACHILLÉA*. \* *Vaill. A. G.* 1720. f. 2. 10. 36.  
*Millefolium Tournef.* 283. *Ptar-*  
*mica Tournef.* 283. *Milfoil.*  
*Sneeze-wort.*

CAL. *Common* egg'd, imbricated: the *scales* egg'd, acute, converging.

COR. *Compound* ray'd: *Corollets* hermaphrodite, tubular in the disk.  
*Feminine* tongued, five to ten, in the ray.

*Proper* of the hermaphrodites, funnel-form, five-cleft, expanded.

Of the *Females* tongued, inverse-hearted, expanding, three-cleft: the *intermediate division* less.

STAM. In the hermaphrodites *Filaments* five, capillary, very short.  
*Anther* cylindric, tubular.

PIST. In the hermaphrodites: *Germ* small. *Style* thread-form, the length of the stamens. *Stigma* obtuse, end-nick'd.

In the *Females*: *Germ* small. *Style* thread-form, the length of the hermaphrodite ones. *Stigmas* two, obtuse, reflected.

PER. none. *Calyx* scarcely changed; *Receptacle* thread-form elongated as the disk of the seeds, egg'd, twice as long as the calyx.

SEEDS In the hermaphrodites solitary, egg'd, furnished with a *lock of wool*. *Pappus* none.

In the *Females* similar to the hermaphrodites.

REC. chaffy, elevated: the *chaff* lanced, the length of the florets.

972. TRIDAX. † *Starwort of Vera Cruz.*

CAL. Common cylindric, imbricated; the *scales* egg-oblong, obscurely acute, erect.

COR. Compound ray'd: corollets hermaphrodite, tubular, in the disk: Feminine in the ray.  
 Proper in the hermaphrodites funnel-form, five-tooth'd, erect.  
 In the females tongued, three-parted: the divisions equal, the middle one narrower.

STAM. In the hermaphrodites Filaments five, capillary, very short.  
 Anther cylindric, tubular.

PIST. In the hermaphrodites; Germ oblong. Style bristly, the length of the stamens. Stigma obtuse.  
 In the females Germ oblong. Style thread-form, the length of the corollet. Stigma obtuse.

PER. none. Calyx unchanged.

SEEDS in the hermaphrodites solitary, oblong. Pappus many-ray'd, simple, rather longer than the calyx.

In the females most similar to the hermaphrodites.

REC. chaffy, flat. The chaff lanced, shorter than the seed.

## 978. AMELLUS. †

CAL. Common imbricated, roundish.

COR. Compound ray'd: Corollets hermaphrodite, numerous, in the disk. Feminine, numerous in the ray.  
 Proper of the hermaphrodites tubular, five-cleft.  
 Of the Females tongued, loose, two-or three-tooth'd.

STAM. in the hermaphrodites: Filaments five, capillary, short.  
 Anther cylindric, tubular.

PIST. of the hermaphrodites; Germ inverse-egg'd. Style thread-form, the length of the stamens. Stigmas two, thread-form.  
 In the females most similar to the hermaphrodites.

PER. none. Calyx unchanged.

SEEDS in the hermaphrodites solitary, inverse-egg'd. Pappus hairy.  
 In the females most similar to the hermaphrodites.

REC. chaffy.

## 1321. ECLIPTA.

CAL. *Common* many-leaved: the *leaflets* lanced, subequal, in a double series.

COR. *Compound* ray'd. *Of the ray* most copious, feminine. *Of the disk* hermaphrodite.

*Proper* of the hermaphrodites tubular, four-cleft, erect, mealy without.

In the *females* very narrow, tongued.

STAM. in the hermaphrodites; *Filaments* four, very short. *Anther* cylindric.

PIST. in the hermaphrodites; *Germ* oblong. *Style* middle-size. *Stigma* two-cleft, expanding.

In the *females*; *Germ* three-corner'd. *Style* middle-size. *Stigma* two-cleft, expanding.

PER. *Calyx* unchanged.

SEEDS in the hermaphrodites oblong, compress'd, notchletted, obtuse, awnless.

In the *females* three-corner'd, oblong, notchletted, obtuse, awnless.

REC. flattish, chaffy: the chaff very narrow.

OBS. *It is distinguished from Verbesina by its four-cleft corolllets, and awnless seeds; from Cotula by its chaffy receptacle.*

## 973. SIGESBÉCKIA. \*

CAL. *Common exterior* five-leaved: the *leaflets* linear, columnar, most expanding, longer than the flower, permanent.

*Interior* nearly five-angled; the *leaflets* many egg'd, concave, obtuse, equal.

COR. *Compound* semiray'd. *Corollets* hermaphrodite, many, in the disk. *Female* five (and under), in the ray, on one side of the flower only.

*Proper* of the hermaphrodites funnel-form, surpassing the calyx in length, five-tooth'd.

Of the *females* tongued, broad, very short, three-tooth'd.

STAM. In the hermaphrodites *Filaments* five, very short. *Anther* cylindric, tubular.

PIST. In the hermaphrodites *Germ* oblong, incurved, the size of the calyx. *Style* thread-form, the length of the stamens. *Stigma* two-cleft.

In the *females*: *Germ* oblong, incurved, the size of the calyx. *Style* thread-form, the length of the hermaphrodite one. *Stigma* two-cleft.

PER. none. *Calyx* unchanged.

SEEDS in the hermaphrodites solitary, oblong, obtusely four-corner'd, thicker above, obtuse, naked. *Pappus* none.

In the *Females* very similar to the hermaphrodites.

REC. chaffy: the *chaff* very similar to the calyx-scales, concave, involving the seeds on one side, deciduous.

OBS. *S. occidentalis* (*occidental*) has the corol ray'd; ray single; receptacle naked; seeds with a pappus from two chaffs on both sides. R.

975. VERBESÍNA. \* Eupatoriophalacron Dill.  
eltb. 113. Vaill. A.G. 1719.

CAL. Common concave; the leaves oblong, channel-concave, erect, oftner equal in a double series.

COR. Compound ray'd: Corollets hermaphrodite many, in the disk. Feminine about five in the ray.

Proper of the hermaphrodites funnel-form, five-tooth'd, erect. Of the Females tongued, three-cleft (and broad or simple and very narrow).

STAM. In the hermaphrodites. Filaments five, capillary, very short. Anther cylindric, tubular.

PIST. Of the hermaphrodites. Germ oblongish. Style thread-form, the length of the stamens. Stigmas two, reflected.

In the Females. Germ oblongish. Style thread-form, the length of the hermaphrodite one. Stigmas two, reflected.

PER. none. Calyx unchanged.

SEEDS in the hermaphrodites solitary, thickish, angular. Pappus awn'd.

In the females most similar to the hermaphrodites.

REC. chaffy.

OBS. Eupatoriophalacron V. has naked seeds.

Ceratocephaloides V. has seeds with a chaffy pappus.

V. biflora (two-flower'd) has awnless seeds.

V. calendulacea has a simple five-leaved calyx. R.

977. BUPHTHALMUM. \* Asteriscus Tournef. 283.  
 Vaill. A.G. 1720. Dill. elth. 38. f. 44. Asterioi-  
 des Tournef. 487. Vaill. A. G. Ox-eye.

CAL. Common various in different species, imbricated.

COR. Compound ray'd. Corollets hermaphrodite, numerous, consti-  
 tuting a flat disk. Feminine more than ten in the ray.

Proper of the Hermaphrodites funnel-form; the border five-cleft,  
 expanded.

Of the Females tongued, longer, expanding, three-tooth'd.

STAM. in the hermaphrodites; Filaments five, capillary, very short.  
 Anther tubular, cylindric.

PIST. of the hermaphrodites; Germ egg'd, compress'd. Style thread-  
 form, the length of the stamens. Stigma thickish, simple.

In the females; Germ two-edg'd. Style thread-form, the length  
 of the hermaphrodites. Stigmas two, oblong.

PER. none. Calyx unchanged.

SEEDS in the hermaphrodites solitary, oblong, crown'd with a gash'd  
 many-cleft margin.

In the females solitary, compress'd, with a margin cutting on  
 both sides, crown'd with a similar margin.

REC. chaffy, convex.

OBS. B. maritimum (sea) has a two-cleft hermaphrodite stigma.  
 Willch. R.

## III. FRUSTRANEOUS POLYGAMY.

(Polygámia frustránea.)

979. HELIANTHUS. \* Corona folis *Vaill. A. G.*  
 1720. f. 12. 45. *Tournef.*  
 279. *Dill. elth.* 94. Sun-  
 flower.

CAL. Common imbricated, rather ragged, expanded: the *scales* oblong, broadish at the base, every where gaping at the tops.

COR. Compound ray'd: *Corollets* hermaphrodite most numerous in the disk. *Feminine* fewer, much longer, in the ray.

*Proper* of the hermaphrodites cylindric, shorter than the common calyx, bellied at the base, orbicular, depress'd: the border five-tooth'd, acute, expanding.

Of the *females* tongued, lanced, most intire, very long.

STAM. in the hermaphrodites; *Filaments* five, curved, inserted beneath the belly of the corollet, the length of the tube. *Anther* cylindric, tubular.

PIST. in the hermaphrodites; *Germ* oblong. *Style* thread-form, the length of the corollet. *Stigma* two-parted, reflected.

In the *females*: *Germ* very small. *Style* none. *Stigma* none.

PER. none. *Calyx* unchanged.

SEEDS in the hermaphrodites solitary, oblong, obtuse, four-corner'd, compress'd at the opposite angles, the internal ones narrower. *Pappus* with two, lanced, deciduous awns.

In the *females* none.

REC. chaffy, large, flat: the *chaffs* lanced, acute, two separating each seed, deciduous.

980. RUD-

980. RUDBECKIA. \* Obeliscotheca Vaill. A. G.

1720. f. 44. Dill. eltb. 218. Dwarf Sun-flower.

CAL. Common with a double order of scales; the scales flat, broadish, short, six in each order.

COR. Compound ray'd: Corollets hermaphrodite, numerous in a conic disk. Feminine twelve (about); very long, in the ray. Proper of the hermaphrodites tube-funnel-form: the border five-tooth'd.

Of the females tongued, lanced, two or-three-tooth'd, flat, pendulous.

STAM. in the hermaphrodites; Filaments five, capillary, very short. Anther cylindric, tubular.

PIST. in the hermaphrodites; Germ four-corner'd. Style thread-form, the length of the corollet. Stigma two-parted, revolute.

In the females; Germ very small. Style none. Stigma none.

PER. none. Calyx unchanged.

SEEDS in the hermaphrodites solitary, oblong. Pappus a membranous, four-tooth'd margin.

In the females none.

REC. chaffy, conic, longer than the common calyx: the chaff the length of the seeds, erect, channel-concave, deciduous.

981. COREOPSIS. \* Ceratocephaloides Vaill. act.

1720. Tickseed-Sunflower.

CAL. Common either simple subimbricated, or double: the exterior often with leaflets eight, rude, placed in an orb: the interior with as many larger membranous and coloured ones.

COR. Compound ray'd. Corollets hermaphrodite, numerous in the disk. Feminine eight, in the ray.

Proper of the hermaphrodites tubular, five-tooth'd.

Of the females tongued, four-tooth'd, expanding, large.

STAM. in the hermaphrodites; Filaments five, capillary, very short. Anther cylindric, tubular.

PIST. in the hermaphrodites: Germ comprefs'd. Style thread-form, the length of the stamens. Stigmas two-cleft, acute, slender.

In the females: Germ coniform to the hermaphrodites. Style none. Stigma none.

PER. none. Calyx scarcely changed.

SEEDS in the hermaphrodites solitary, orbicular, convex on one side, hollow on the other, with a transverse protuberance at the top, and also at the base, girt with a membranous margin, with a two-horned top.

In the females none.

REC. chaffy.

CAL. *Common* imbricated, gibbous: the inmost *leaflets* augmented at the top.

COR. *Compound* ray'd. *Corollets* hermaphrodite, many, in the disk. *Feminine* in the ray.

*Proper* of the hermaphrodites tubular, five-cleft.

Of the *Females* tongued, intire.

STAM. in the hermaphrodites; *Filaments* five, very short. *Anther* cylindric, tubular.

PIST. in the hermaphrodites: *Germ* oblong. *Style* thread-form, the length of the corollet. *Stigma* two-cleft.

In the *females*: *Germ* less. *Style* thread-form, the length of the corollet. *Stigma* obscure.

PER. none. *Calyx* unchanged.

SEEDS in the hermaphrodites solitary, oblong, with nearly no *pappus*, or margined with a somewhat chaffy obscure *pappus*.

In the *females* rudiments oftner abortive.

REC. chaffy.

OBS. Of *O. Bellidiastrum* the *calyxes* are parched. R.

## 981. GORTÉRIA.

**CAL.** *Common* one-leaved, imbricated with thorny scales : the interior ones gradually longer, straight, bristly, rigid.

**COR.** *Compound* ray'd; *Corollets* hermaphrodite many in the disk. *Feminine* fewer, in the ray.

*Proper* of the hermaphrodites funnel-form, five-cleft.

*Of the females* tongued, lanced.

**STAM.** in the hermaphrodites : *Filaments* five, short. *Anther* cylindric, tubular.

**PIST.** in the hermaphrodites; *Germ* villous. *Style* thread-form, the length of the corollet. *Stigma* two-cleft.

*In the females*; *Germ* obscure. *Style* none, *Stigma* none.

**PER.** *Calyx* unchanged, deciduous.

**SEEDS** in the hermaphrodites solitary, roundish. *Pappus* hairy.

*In the females* none.

**REC.** naked.

## 2271. ZOEGÉA.

**CAL.** *Common* egg'd, imbricated; the scales lanced, fringed : the inmost ones parched, lanced, longer.

**COR.** *Common* ray'd : *Corollets* hermaphrodite, numerous, in the disk. *Feminine* fewer, in the ray.

*Proper* of the hermaphrodites one-petal'd : the tube thread-form; the border five-parted : the divisions lanced, erect.

*Of the females* one-petal'd, tongued, flat, nearly five-tooth'd.

**STAM.** in the hermaphrodites; *Filaments* five, short. *Anther* cylindric.

**PIST.** in the hermaphrodites; *Germ* short. *Style* capillary, very long, erect. *Stigma* short, two-cleft.

*In the females*; *Germ* short. *Style* none. *Stigma* none.

**PER.** none. *Calyx* unchanged, converging.

**SEEDS** in the hermaphrodites solitary. *Pappus* bristly.

*In the females* none.

**REC.** bristly.

**OBS.** *It has a great affinity with Centaurea, but the ray of the corol of the flowers is flat.*

984. CENTAURÉA. \* *Centaureum majus* Tournef.  
 256. *Jacea* Tournef. 254. *Dill.*  
*gen.* 13. *Cyanus* Tournef. 254.  
*Vaill.* *Calcitrapa* Vaill. 1718.  
*Calcitrapoides* Vaill. *Rhaponticum* Vaill. *Rhaponticoides* Vaill.  
*Jacea* Vaill. *Amberboi* Vaill.  
*Cyanus* Vaill. *Crocodilium* Vaill.  
*Centaury*, *Knapweed*, *Blue-bottle*,  
*Sultan*, *Star-thistle*.

CAL. Common imbricated, roundish: the scales oftner variously terminated.

COR. Compound flosculous, of different form: Corollets hermaphrodite very numerous, in the disk. Feminine fewer, larger, loose, in the ray.

Proper of the hermaphrodites one-petal'd: the tube thread-form; the border bellied, oblong, erect, terminated with five, linear, erect divisions.

Of the females one-petal'd, funnel-form; the tube slender, gradually enlarged, recurved; the border oblong, oblique, unequally divided.

STAM. in the hermaphrodites; Filaments five, capillary, very short. Anther cylindric, tubular, the length of the corollet.

PIST. in the hermaphrodites; Germ small. Style thread-form, the length of the filaments. Stigma most obtuse, prominent and with a point (two-cleft), in many.

In the females; Germ very small. Style scarcely any. Stigma none.

PER. none. Calyx unchanged, converging.

SEEDS in the hermaphrodites solitary. Pappus in most feathery or hairy.

In the females none.

REC. bristly.

OBS. *Calcitrapa* Vaill. Calyx with prickles solitary, straight, large. Seeds naked or crowned.

*Calcitrapoides*. V. Calyx with small crowded prickles.

*Rhaponticum*. V. Calyx with parched, intire membranes.

*Rhaponticoides*. V. Calyx with lanced, pointed scales.

*Amberboi*. V. Calyx with very simple, obtuse scales.

*Jacea*. V. Calyx with fringed scales. Seeds with a bristly pappus.

*Crocodilium*. V. Calyx with prickly scales. Seeds with a feathery pappus.

## IV. NECESSARY POLYGAMY.

*(Polygamia necessaria.)*

## 985. MILLÉRIA. \* Mart. cent. 4.

**CAL.** Common one-leaved, three-parted, very large, converging into a flat-three-sided form, permanent; the two interior leaflets equal, rather egg'd, acute, flat: but the exterior one twice as large, roundish, pointed, flat, hearted, divided deeper from the rest.

**COR.** Compound semi-ray'd; Corollets hermaphrodite, two, within the lesser calyx-leaflets. Feminine one, within the greater calyx-leaflet.

Proper of the hermaphrodites one-petal'd, tubular, erect, five-tooth'd.

Of the females tongued, erect, obtuse, concave, end-nick'd.

**STAM.** in the hermaphrodites; Filaments five, capillary. Anthers as many, erect, linear, connected by the middle of the sides, the length of the corol, acute.

**PIST.** in the hermaphrodites; Germ oblong, very slender. Style thread-form, the length of the corollet. Stigmas two, linear, feeble, obtuse, expanding.

In the females; Germ large, three-corner'd. Style thread-form, the length of the corollet. Stigmas two, bristly, reflected, long.

**PER.** none. Calyx converging into a three-corner'd form.

**SEEDS** in the hermaphrodites none.

In the females solitary, narrower towards the base, obtuse, oblong, three-sided. Pappus none.

**REC.** Common scarcely any.

**OBS.** Of *M. quinqueflora* (five-flowered), the female corollet is three-cleft, and there are four hermaphrodite tubular ones; the calyx is two-valved; the style in the males simple, in the females two-cleft.

1323. BALTIMORA. \*

CAL. Common cylindric: the leaflets seven, lanced, erect: the interior ones shorter.

COR. Compound ray'd: Corollets hermaphrodite of the disk many (11). Feminine of the Ray five.

Proper of the hermaphrodites funnel-form: the border five-cleft, downy.

Of the females tongued, egg'd, three-cleft: the middle one less.

STAM. in the hermaphrodites: Filaments five. Anther cylindric.

PIST. in the hermaphrodites: Germ obscure. Style short. Stigma none.

In the females: Germ oblong, crowned with a toothed, deciduous calycle. Style thread-form, very short. Stigmas two, thread-form, longer than the corollet.

PER. none. Calyx unchanged.

SEEDS in the hermaphrodites none.

In the females three-sided, naked, gibbous at the top.

REC. chaffy.

986. SILPHIUM. \* Asteriscus Dill. elib. 39. 42.

False Chrysanthemum.

CAL. Common egg'd, imbricated, ragged: the scales egg-oblong, reflected in the middle, every where prominent, permanent.

COR. Compound ray'd. Corollets hermaphrodite, many, in the disk. Feminine fewer in the ray.

Proper of the hermaphrodites one-petal'd, funnel-form, five-tooth'd, the tube scarcely narrower than the border.

Of the females lanced, very long, often three-tooth'd.

STAM. in the hermaphrodites: Filaments five, capillary, very short. Anther cylindric, tubular.

PIST. in the hermaphrodites: Germ columnar, very slender. Style thread-form, very long, villous. Stigma simple.

In the females: Germ inverse-hearted. Style simple, short. Stigmas two, bristly, the length of the style.

PER. none. Calyx unchanged.

SEEDS in the hermaphrodites none.

In the females solitary, submembranous, inverse-hearted, with a membranous two-horn'd end-nick'd margin.

REC. chaffy: the chaff linear.

987. POLYMNIA. \* Tetragonotheca Gen. ed. VI.  
n. 976. Wedelia Jacq. amer. 217.

CAL. Common exterior expanding, larger, five-leaved: with egg'd leaflets; the superior calyx ten-leaved; the leaflets boat-form, erect.

COR. Compound ray'd. Corollets hermaphrodite, many, in the disk. Feminine five or ten in the ray.

Proper of the hermaphrodites funnel-form, five-cleft.

Of the females tongued, three-tooth'd.

STAM. in the hermaphrodites; Filaments five. Anther cylindric, tubular, rather longer than the corol.

PIST. in the hermaphrodites; Germ very small. Style thread-form, the length of the stamens. Stigma obtuse.

In the females; Germ egg'd, rather larger. Style thread-form, the length of the tube. Stigmas two, acute.

PER. none. Calyx unchanged.

SEEDS in the hermaphrodites none.

In the females solitary, inverse-egg'd, gibbous, subangular inwards, naked,

REC. chaffy, convex, imbricated: the chaff egg'd, obtuse, the length of the florets, concave.

OBS. Of P. Tetragonotheca and Wedelia The exterior Calyx is four-leaved. Wedelia differs from the rest in the petals of the ray being end-nick'd and the seeds with a flat ten-tooth'd pappus. Syst. Veg. 658. R.

988. CHRYSÓGONUM. † *Gold-joint.*

CAL. Common five-leaved, flat, expanding; the *leaflets* lanced, nearly the length of the flower.

COR. Compound ray'd. *Corollets* hermaphrodite, numerous, in the disk; *Feminine* five, in the ray.

*Proper* of the hermaphrodites funnel-form, five-tooth'd, erect.

Of the *females* tongued, oblong, lop'd, three-tooth'd.

STAM. in the hermaphrodites; *Filaments* five, very small. *Anther* cylindric, tubular.

PIST. in the hermaphrodites; *Germ* very small. *Style* bristly, the length of the corollet. *Stigma* obscure.

In the *females*; *Germ* larger, obvolv'd in its proper perianth.

*Style* shorter. *Stigmas* two, revolute.

PER. none. *Calyx* unchanged.

SEEDS in the hermaphrodites none.

In the *females* solitary, inverse-hearted, flat-quadrangular, with broadish sides: crowned with a scalelet three-tooth'd, gaping inward, contracted towards the base. Each seed lies concealed within its proper four-leaved *glume*; the exterior scale egg'd, broader; the three other scales very narrow, closely converging, gaping in the mature fruit.

REC. chaffy, flat; the *chaff* linear, obtuse.

989. MELAMPÓDIUM. † *Black-foot.*

CAL. Common five-leaved, flat; the *leaflets* egg-oblong, the length of the flower, most expanding.

COR. Compound ray'd: *Corollets* hermaphrodite in the disk; *Feminine* about five, in the ray.

*Proper* of the hermaphrodites one-petal'd, funnel-form, five-tooth'd, erect.

Of the *females* - -

STAM. in the hermaphrodite; *Filaments* five, very small. *Anther* cylindric, tubular.

PIST. in the hermaphrodites: *Germ* very small. *Style* bristly, the length of the corol. *Stigma* obscure,

In the *females*; *Germ* rather egg'd, compress'd, the sides rugged, the top flat, membranous. *Style* very short. *Calyx* unchanged.

PER. - -

SEEDS in the hermaphrodites none.

In the *females* solitary, inverse-egg'd, compress'd, four-corner'd, prickly on the sides, crowned with an hearted scale, the margin involute converging in the form of a valve.

REC. chaffy, conic: the *chaff* lanced, colour'd, the length of the florets.

990. CA-

990. CALÉNDULA. \* *Caltha Tournef.* 284. *Vaill.*  
*A.G.* 1720. 27. *Dimorphotheca*  
*Vaill. A.G.* 1720. f. 22. 21.  
*Cardispermum Trant. A. G.*  
 1724. f. 2. *Marygold.*

- CAL.** *Common* simple, many-leaved, erectish: the segments line-lanced, fourteen to twenty, subequal.
- COR.** *Compound* ray'd: *Coroliets* hermaphrodite, numerous in the disk. *Feminine* numerous, the number of the rays of the calyx, very long, in the ray.  
*Proper* of the hermaphrodites, tubular, half-five-lobed, the length of the calyx.  
 Of the *Females* tongued, very long, three-tooth'd, villous at the base, nerveless.
- STAM.** In the hermaphrodites; *Filaments* five, capillary, very short. *Anther* cylindric, tubular, the length of the corolla.
- PIST.** In the hermaphrodites: *Germ* oblong. *Style* thread-form, scarcely the length of the stamens. *Stigma* obtuse, two-lobed, straight.  
 In the females: *Germ* oblong, three-corner'd. *Style* thread-form, the length of the stamens. *Stigmas* two, oblong, pointed, reflected.
- PER.** none. *Calyx* converging, roundish, depress'd.
- SEEDS** In the hermaphrodites; *central* ones of the disk none: *proper ones of the periphery* sometimes solitary, membranous, inveterate, compress'd.  
 In the *Females* solitary, larger, oblong, incurved, triangular, with membranous angles, the form of a vegetable longitudinally engraved without. *Pappus* none.
- REC.** naked, flat.
- Obs.** Of *Caltha Vaill.* The seeds of the females are furnished with a membranous inflexed wing on both sides.  
 Of *Dimorphotheca V.* The seeds of the females are destitute of a lateral membranous inflexed wing.

991. ARCTÓTIS. \* *Arctothea* Vaill. A.G. 1720.  
f. 39. 40. *Anemonospermus*  
*Com. H. A. 2. p. 45. Bear's-ear.*

**CAL.** Common roundish, imbricated; the inferior scales looser, awl'd; the middle ones egg'd; the inmost oblong; the top parched, rounded, concave.

**COR.** Compound ray'd; Corollets hermaphrodite, numerous in the disk. Feminine tongued, nearly twenty, longer than the diameter of the disk.

Proper of the hermaphrodite funnel-form: the border five-cleft, with reflected equal tops.

Of the females tongued, lanced, very slenderly five-tooth'd, the tube very short.

**STAM.** in the hermaphrodites; Filaments five, capillary, very short. Anther cylindric, tubular, five-tooth'd, the length of the corollet.

**PIST.** in the hermaphrodites; Germ scarcely manifest. Style cylindric, rather longer than the corol. Stigma simple.

In the females; Germ egg-fourcorner'd, villous, crowned with a proper perianth. Style thread-form. Stigmas two, egg-oblong, thickish, erect.

**PER.** none. Calyx unchanged.

**SEEDS** in the hermaphrodites none.

In the females solitary, roundish, villous. Pappus the proper five-leaved perianth: (the leaflets egg'd, expanding), crowned with the egg'd leaflets of the proper perianth, placed in an orb.

**REC.** villous or chaffy, flattish.

**OBS.** This Genus is singular, because in some species the female florets of the ray are sterile, of the disk fertile; in other species the female florets of the ray are fertile; of the disk sterile.

962. OSTEOSPÉRMUM. \* Monilifera *Vaill.* *A.*

*G.* 1720. *f.* 28. *Chrysanthemoides Tournef.* *A. G.*  
 1705. *f.* 4. *Dill. gen.* 9.  
*elth.* 68. *Bone-seed, Hard-seed Chrysanthemum.*

**CAL.** *Common* simple, hemispheric, many-leaved; the *leaflets* awl'd, small.

**COR.** *Compound* ray'd. *Corollets* hermaphrodite numerous in the disk. *Feminine* about ten, in the ray.

*Proper* of the hermaphrodites tubular, five-toothed, the length of the calyx.

Of the *Females* tongued, linear, three-tooth'd, very long.

**STAM.** in the hermaphrodites: *Filaments* five, capillary, very short. *Anther* cylindric, tubular.

**PIST.** in the hermaphrodites: *Germ* very small *Style* thread-form, the length of the stamens. *Stigma* obscure.

In the females: *Germ* globular. *Style* thread-form, the length of the stamens. *Stigma* end-nick'd.

**PER.** none. *Calyx* unchanged.

**SEEDS** in the hermaphrodites none.

In the *females* solitary, globular, colour'd, at length indurated, including the same-form nucleus. *Pappus* none.

**REC.** naked, flat.

**OBS.** *O. corymbosum (corymbd)* differs in its berried, oblong seeds. *R.*

993. OTHONNA. \* *Jacobæastrum Vaill. A. G.*  
1720. 15. *African Ragwort.*

CAL. Common most simple, one-leaved; obtuse at the base, acute, equal divided into eight or ten segments.

COR. Compound ray'd: Corollæ hermaphrodite many, in the disk. Feminine in the ray, the number of the segments of the calyx, often eight.

Proper of the hermaphrodites tubular, five-tooth'd, scarcely longer than the calyx.

Of the Females tongued, lanced, longer than the calyx, three-tooth'd, reflected.

STAM. In the hermaphrodites. Filaments five, capillary, very short. Anther cylindric, tubular, the length of the corollæ.

PIST. In the hermaphrodites. Germ oblong. Style thread-form, rather longer than the stamens. Stigma two-cleft, simple.

In the Females. Germ oblong. Style thread-form, the length of the hermaphrodites. Stigma reflected, larger.

PER. none. Calyx unchanged, permanent.

SEEDS in the hermaphrodites none.

In the females solitary, oblong, naked or pappus'd.

REC. naked, dotted.

OBS. In some the seeds are crowned with a pappus, in others the calyx is divided beyond the middle; in others sometimes tooth'd, but the form always constant.

## 1324. HIPPIA. †

CAL. Common hemispheric, subimbricated, with egg'd scales.

COR. Compound disk-like: florets male, many of the disk. Feminine ten in the circumference.

Proper of the males, funnel-form, five-cleft, erect.

Of the females obscure, tubular, rather three-cleft.

STAM. in the males; Filaments five, very short. Anther cylindric, shorter.

PIST. in the females; Germ margin'd, large. Style two-cleft. Stigmas erect.

PER. none. Calyx unchanged.

SEEDS in the females oval, every way very broadly margin'd, naked.

REC. naked.

994. ERIOCÉPHALUS. \* *Dill. elth. 110. Wool-head.*

CAL. *Common erect: the scales ten, egg'd, equal, converging, of which the five exterior are keel'd, the interior flat.*

COR. *Compound ray'd. Corollets hermaphrodite, twice as many in the disk. Feminine five, in the ray.*

*Proper of the hermaphrodite funnel-form: the border five-cleft, expanded.*

*Of the Ray tongued, inverse-hearted: the top three-lobed, equal.*

STAM. *in the hermaphrodites; Filaments five, capillary, very short. Anther cylindric, tubular.*

PIST. *in the hermaphrodites; Germ very small, naked. Style simple. Stigma two-cleft, acute.*

*In the females; Germ egg'd, naked. Style simple. Stigma pointed, inflected.*

PER. *none. Calyx scarcely changed.*

SEEDS *in the hermaphrodites none.*

*In the females solitary, inverse-egg'd, naked.*

REC. *naked, flat; or the wool of the calyx of a double order is interposed both between the hermaphrodite and female florets.*

OBS. *A compress'd Corpuscle adheres to the base of each calyx-scalet.*

995. FILÁGO. \* *Vaill. Act.* 1719. f. 6..7. *Gnaphalium Vaill. A.G.* 1719. *Cotton-weed.*

CAL. *Common* of imbricated chaff, containing in the *disk* many hermaphrodite florets; in the *circumference* between the inferior scales of the calyx solitary feminine florets.

COR. of the hermaphrodites funnel-form; the *border* four-cleft, erect.  
Of the *females* scarcely conspicuous, thread-form, very narrow, two-cleft in the mouth.

STAM. in the hermaphrodites: *Filaments* four, capillary, small.  
*Anther* cylindric, four-tooth'd at the top.

PIST. in the hermaphrodites; *Germ* scarcely any. *Style* simple. *Stigma* acute, two-cleft.

In the *females*; *Germ* egg'd, largish, depress'd. *Style* thread-form. *Stigma* two-cleft, acute.

PER. none.

SEEDS in the hermaphrodites none.

In the *females* inverse-egg'd, compress'd, smooth, small. *Pappus* none.

REC. the disk naked without chaff; but the sides with calyx-chaff, separating the florets.

OBS. F. *Leontopodium* differs something from its kindred. *Mant.* 481. R.

In F. *gemanica* (*german*), *montana* (*mountain*), *arvensis* (*field*), and *gallica* (*french*), the seeds are pappus'd. R.

996. MICROPUS. \* *Gnaphalodes Tournef.* 439.  
(*Little-foot*). *False Cud-weed.*

CAL. *Common inferior* five-leaved: the *leaflets* slender, small, obscure.

*Common interior* very large, five-leaved: the *leaflets* loose, distinct, helmetted, compressed, longitudinally converging on the margin.

COR. *Common* with ten hermaphrodite florets in the disk, and five *Feminine* ones in the circumference.

*Proper* of the hermaphrodites one-petal'd, funnel-form, five-tooth'd, erect.

Of the *females* none.

STAM. In the hermaphrodites *Filaments* five, bristly, very short. *Anther* cylindric, tubular, the length of the corollet.

PIST. In the hermaphrodites; *Germ* obscure. *Style* thread-form, longer than the stamens. *Stigma* obscure.

In the females *Germ* inverse-egg'd, compress'd, concealed within each scale of the common interior calyx. *Style* from the interior side of the germ, bristly, inflected towards the hermaphrodites, the length of the calyx. *Stigma* two-parted, slender, pointed.

PER. none. *Calyx* unchanged, but the common interior one larger, indurated.

SEEDS in the hermaphrodites none.

In the *females* solitary, inverse egg'd, included in the proper *leaflet* of the interior calyx. *Pappus* none.

REC. with very small, acute *chaff* separating the seeds of the females, but not the florets of the disk.

X. SEPARATE POLYGAMY.  
(*Polygámia segregáta.*)

997. ELEPHANTOPUS. \* *Vaill. A. G. 1719. f. 41. Dill. elth. 104. Elephant's-foot.*

CAL. *Involucre* with three broad, acute leaflets, many-flower'd, large, permanent, without an umbel.

*Perianth* partial four-flower'd, oblong, imbricated; the scales lance-awl'd, dagger'd, erect, of which the four longer are equal.

COR. *Compound tubular: Corollets* hermaphrodite five or four, equal, digested in a simple orb.

*Proper* one-petal'd, tongued; the *border* five-parted, subequal.

STAM. *Filaments* five, capillary, very short. *Anther* cylindric, tubular.

PIST. *Germ* egg'd, crowned. *Style* thread-form, the length of the stamens. *Stigmas* two, slender, expanding.

PER. none. *Calyx* unchanged.

SEEDS solitary, compress'd. *Pappus* bristly.

REC. naked.

QBS. *The distinction between stosculous and semistosculous flowers of Tournefort is not applicable.*

## 1325. OEDERA. †

**CAL.** *Common* many-flower'd, many-leaved, larger than the flowers, ragged; the *leaflets* lanced; the inferior ones larger, containing more partial calyces.

*Partial* many-leaved: (the *leaflets* chaffy, lanced); equal to the florets.

**COR.** *Common* ray'd from many partial flowers.

*Partial* ray'd, also placed in the disk.

*Proper* of the disk hermaphrodite, funnel-form, five-cleft, erect.

Of the ray *Feminine* tongued, lanced, the length of the common calyx.

**STAM.** in the hermaphrodites; *Filaments* five, very short. *Anther* cylindric.

**PIST.** in the hermaphrodites: *Germ* oblong. *Style* thread-form. *Stigmas* two, thread-form, obtuse.

In the females *Germ* oblong. *Style* thread-form. *Stigmas* two, thread-form, longer.

**PER.** none. *Calyx* unchanged.

**SEEDS** in the hermaphrodites oblong, crowned with *chaffs* very numerous, acute, short.

In the females oblong, crowned with numerous *chaffs*.

**REC.** *Common* chaffy.

*Partial* chaffy; the chaff linear, deciduous.

998. SPHÆRANTHUS. \* *Vaill. A.G. 1719. t. 20. f. 12. Globe Flower.*

CAL. Common globular, imbricated: the scales pointed, permanent, every where cloathing the universal receptacle.

Partial Perianth many-flower'd, five-leaved, solitary within each scale of the common calyx, consisting of leaflets linear, equal, erect.

COR. Partial. Corollets hermaphrodite, few (3) in the disk; Feminine oftner five in the circumference.

Proper of the hermaphrodites one-petal'd, funnel-form: the border five-cleft, expanded.

Of the females awl'd, tubular: the mouth three-cleft, very small, closed.

STAM. in the hermaphrodites; Filaments five, capillary, very short. Anther cylindric, tubular, longer than the corol.

PIST. in the hermaphrodites: Germ tabid. Style longer, thicker. Stigma most simple.

In the females: Germ oblong. Style bristly, the length of the stamens. Stigma two-parted.

PER. none. Calyx unchanged.

SEEDS in the hermaphrodites none.

In the females solitary, oblong, naked.

REC. Common scaly. Partial naked.

999. ECHINOPS. \* *Echinopus Tournef. 262. Vaill. A.G. 1718. f. 4. 5. 15. (Hedge-Hog). Globe Thistle.*

CAL. Common many-leaved; (the scales awl'd, totally reflected), containing many flowers.

Partial perianth one-flower'd, oblong, imbricated, angular: the leaflets awl'd, loose above, erect, permanent.

COR. one-petal'd, the length of the calyx, tubular: the border five-cleft, reflex-expanding.

STAM. Filaments five, capillary, very short. Anther cylindric, tubular, five-tooth'd.

PIST. Germ oblong. Style thread-form, the length of the corol. Stigma double, rather depress'd, revolute.

PER. none. Calyx unchanged, larger.

SEED one, egg-oblong, narrower at the base: the top obtuse. Pappus obscure.

REC. Common globular, bristly.

1000. GUNDÉLIA. † *Tournef.* 486. *Hacub Vaill.*  
A. G. f. 16.

**CAL.** *Common* scarcely any, besides the leaves surrounding the compound receptacle.

**COR.** *Compound* tubular, uniform: *Corollets* hermaphrodite five, equal. *Proper* one-petal'd, club'd: the border bellied, five-cleft, erect.

**STAM.** *Filaments* five, capillary, very short. *Anther* cylindric, tubular, long.

**PIST.** *Germ* egg'd, immersed in the receptacle, crowned with very small alelets, beneath. *Style* thread-form, longer than the corol. *Stigmas* two, revolute.

**PER.** none. The seeds quite immersed in the receptacle are concealed.

**SEEDS** solitary, roundish, pointed, crowned with an obscure margin, the lateral ones abortive.

**REC.** *Common* conic, every where covered with partial receptacles, which are divided with three-piked chaffs.

*Partial* cone-obtuse, quadrangular, lop'd.

*Pits* five, of which one is in the center, the rest are excavated in the circumference for the insertion of five florets.

## 1422. JUNGIA. S.

**CAL.** *Common* perianth many-leaved: the leaflets rather expanding, linear, obtuse, channel'd, shorter than the leaflets of the partial perianth, involving three or four flowers.

*Partial* perianth many-leaved, subequal, many-flower'd: the leaflets oblong, channel'd, obtuse, erect.

**COR.** *Compound* uniform, hermaphrodite, equal: *Corollets* one-petal'd, funnel-form; tube gradually enlarged; border two-lip'd; the exterior division revolute, longer, linear, tooth'd at the top; the interior division two-parted into two erect acute segments.

**STAM.** *Filaments* five, very short, inserted into the tube. *Anthers* conjoined.

**PIST.** *Germ* beneath, linear, angular. *Style* thread-form. *Stigmas* two, revolute, obtuse.

**PER.** none. *Calyx* unchanged.

**SEEDS** solitary, angular. *Pappus* long, sessile, feathery.

**REC.** chaffy; the chaff similar to the calyx-leaflets.

1001. STOËBE. † *Falſe Elichryſum.*

CAL. *Common* roundiſh, imbricated; the *ſcales* awl'd, every where covering the univerſal receptacle.

*Perianth* partial one-flower'd, five-leaved, ſolitary within each ſcale of the common calyx, conſiſting of *leaſlets* linear, acute, equal, erect.

COR. *Proper* one-petal'd, funnel-form; the *border* five-cleft, expanded.

STAM. *Filaments* five, capillary, ſhort. *Anther* cylindric, five-toothed.

PIST. *Germ* oblong; *Style* thread-form, the length of the ſtamens. *Stigma* acute, two-cleft.

PER. none. *Calyx* unchanged.

SEEDS ſolitary, oblong. *Pappus* feathery, long.

REC. *proper* naked.

1003. SERIPHIIUM. † *Helichryſoides Vaill. adt.*  
A. P. 1719.

CAL. *Perianth* exterior with leaſlets five, roundiſh, imbricated, downy.

*Interior* (with leaſlets five, erect, pointed, awl'd, very ſmooth, parched, twice as long), one-flower'd.

COR. one-petal'd, funnel-form, ſhorter than the interior calyx; the *border* five-toothed.

STAM. *Filaments* five, capillary. *Anther* cylindric.

PIST. *Germ* beneath the corollet above the calyx. *Style* thread-form. *Stigma* rather two-cleft.

PER. none. *Calyx* unchanged, cloſed.

SEED ſolitary, oblong.

# VI. MONOGAMY. (Monogamia).

## 1002. STRUMPFIA. Jacq. amer. 218.

- CAL.** *Perianth* one-leaved, five-toothed, above, very small, permanent.  
**COR.** *Petals* five, oblong, obtuse, expanding.  
**STAM.** *Filaments* none. *Anthers* five, coalesced into an egg'd body.  
**PIST.** *Germ* beneath, roundish. *Style* awl'd, erect, rather longer than the stamens. *Stigma* simple, obtuse.  
**PER.** *Berry* crowned with the calyx, roundish, one-cell'd.  
**SEED** one, roundish.

## 1004. CORYMBIUM.

- CAL.** *Perianth* two-leaved, one-flower'd, beneath, long, prismatic, six-angled: the *leaflets* erect, converging longitudinally, triangular on the back, lop'd, obscurely three-tooth'd, permanent: two *leaflets* very small at the base.  
**COR.** one-petal'd, equal. *Tube* very short. *Border* five-parted, expanding: the *divisions* lanced.  
**STAM.** *Filaments* five, simple, erect, sitting on the tube. *Anthers* oblong, erect, shorter than the corol, conjoined in a cylinder.  
**PIST.** *Germ* within the calyx, beneath the corollet, shaggy. *Style* simple, erect, the length of the corol. *Stigma* oblong, two-parted, expanding.  
**PER.** none. *Calyx* unchanged.  
**SEED** one, oblong, nearly the length of the calyx, covered with wool like a pappus.  
**REC.** naked.  
**ORS.** *Calyx* varies in form. R.

1005. JASIONE. \* *Sheep-Scabius*.

CAL. *Perianth* common ten-leaved: (the interior *alternate leaflets* narrower), including numerous flowers annexed to very short peduncles; permanent.

*Proper perianth* five-cleft, above, permanent.

COR. proper five-petal'd, regular: *Petals* lanced, erect, connected at the base.

STAM. *Filaments* five, awl'd, short. *Anthers* five, oblong, connected at the base.

PIST. *Germ* roundish, beneath. *Style* thread-form, the length of the corol. *Stigma* two-cleft.

PER. *Capsule* roundish, five-angled, crowned with the proper calyx, two-cell'd.

SEEDS many, nearly egg'd.

OBS. *The central florets are often abortive with an undivided club'd stigma.*

1006. LOBÉLIA. \* *Jacq. amer.* 219. *Plum. gen.* 31. *Dortmanna Rudb. A. V.* 1720. *Laurentia Mich.* 14. *Rapuntium Tournef.* 51. *Dill. elth.* 242. *Cardinal Flower.*

CAL. *Perianth* one-leaved, five-cleft, very small, growing round the germ, withering: *toothlets* subequal with the *two superior* looking more upward.

COR. one-petal'd, irregular. *Tube* cylindric, longer than the calyx, longitudinally divided above. *Border* five-parted, with lanced divisions, of which the *two superior* are less, more reflected, divided deeper, constituting the upper lip: the *other three inferior ones* more expanding, oftner larger.

STAM. *Filaments* five, awl'd, the length of the tube of the petal. *Anthers* conjoined in an oblong cylinder, gaping at the base five-ways.

PIST. *Germ* pointed, beneath. *Style* cylindric, the length of the stamens. *Stigma* obtuse, hispid.

PER. *Capsule* egg'd, two-cell'd, gaping at the top, girt by the calyx.

SEEDS numerous, very small.

OBS. *Lobelia Plum. differs from its congeners in the pericarp, (being certainly a Drupe with a two-cell'd nut), which in the rest is a membranous capsule.*

*The Capsule in some is three-cell'd. R.*

1007. VI-

1007. VIOLA. \* *Tournef.* 236. *Calceolaria Loeff.*  
*Violet.*

**CAL.** *Perianth* five-leaved, short, permanent: the *leaflets* egg-oblong, erect, acuter at the top, obtuse at the base, affixed above the base, equal, but various in their disposition: of which two support the petal *a*; one each of the petals *b. c.* and one the two petals *d. e.* together.

**COR.** five-petal'd, irregular: the *petals* unequal; of which the *highest petal a.* is straight, looking downwards, broader, obtuser, end-nick'd, ending at the base in a *Nectary* horned, obtuse, prominent between the leaves of the calyx.

*b. c.* the *lateral* pair is, opposite, obtuse, straight.

*d. e.* the *lowest* pair is, larger, reflected upward.

**STAM.** *Filaments* five, very small, of which the *two* nearest the petal *a.* enter the nectary by annexed appendages. *Anthers* often connected, obtuse, augmented at the top with membranes.

**PIST.** *Germ* above, roundish. *Style* thread-form, prominent out of the anthers. *Stigma* oblique.

**PER.** *Capsule* egg'd, three-corner'd, obtuse, one-cell'd, three-valved.

**SEEDS** many, egg'd, appendaged, affixed to the valves. *Receptacle* linear, running through each valvelet like a line.

**OBS.** *The Stigma* is either (as in those call'd *march-violets*) reflected into a simple hook; or it has (as in those call'd *three-colour'd violets*) a concave head with the top perforated.

*The flower* is always inverted in the *European* species, oftner straight in the *Indian* ones, whence their different appearance.

*V. diandra* (two-male) differs something from its kindred. S. V. 699. R.

1008. IMPATIENS. \* Riv. IV. 146. Balsamina  
Tournef. 235. Balsams.

CAL. *Perianth* two-leaved, very small : the *leaflets* roundish-pointed, equal, placed towards the sides of the flower, colour'd, deciduous.

COR. five-petal'd, grinning : the *petals* unequal, of which the *highest* petal *a.* is roundish, flat, erect, slightly three-cleft, pointed at the top, constituting the *upper lip*.

*b. c.* the *lowest* pair is reflected, large, broader outward, obtuse, irregular, constituting the *under lip*.

*d. e.* the *intermediate* pair is opposite, arising at the base. *a.*

*Nectary* one-leaved, receiving the bottom of the flower like a cowl, oblique in the mouth, arising outwardly, ending in a horn at the base.

STAM. *Filaments* five, very short, narrower toward the base, incurved. *Anthers* as many, conjoined, divided at the base.

PISF. *Germ* above, egg-pointed. *Style* none. *Stigma* simple, shorter than the anthers.

PER. *Capsule* one-cell'd, five-valved, elasticly bursting with the valvelets spirally convolute.

SEEDS many, roundish, affixed to the columnar receptacle.

OBS. In some the petals *d. e.* are wanting, in others the horn of the nectary. The form of the Capsule differs; hence *Impatiens Riv.* has a long capsule, and *Balsamina Riv.* an egg'd one.

# CLASS XX. FEMININE MALES.

(*Gynándria.*)

The Class FEMININE MALES is distinguished from the rest by the situation of the stamens on the style itself, or on the Receptacle elongated into the form of a style, bearing the pistil with the stamens, and becoming a part of the pistil.

**OBS.** *The first order of this Class, which is called two-male (diandria) is natural, the genera differing from each other, almost only in the nectary; which criterion we very much prefer to the root in the construction of genera, tho' it was not before attended to by Botanists. The structure of the fructification of this order is very singular, for the Germ always beneath is contorted: the Petals are five, of which the two interior oftner converge to an helmet. The under lip constitutes the nectary, which occupies the place of the pistil and sixth petal. The Style grows to the interior margin, that it can scarcely be distinguished with its stigma. The Filaments are always two, very short, bearing as many Anthers, narrower beneath, naked or wanting a coat, divisible like the pulp of a citron; these are covered with as many cells open downward, growing into the interior margin of the nectary. The fruit is a Capsule one-cell'd, three-valved, gaping at the angles under the keeled ribs. Seeds sawdust-form, numerous, affixed to the linear receptacle in each valvelet. Venereal virtues have been ascribed by Physicians to all these plants.*

The Reader in examining and comparing our characters must always attend in this class, to the pistil before the stamens, if he would have a distinct idea of the situation of the stamens; but that we might not change the order already received, we have described the stamens before the pistils.

I might, perhaps I ought to have distributed *Calla, Arum, Dracontium, Potum, Zostera*, in other classes; but since it would be very difficult, I suppose impossible, to assign a certain number of stamens to each pistil in these genera, I was induced on further deliberation, to insert them here, rather than to weary the inquirer.

The Flowers of this class are singular, and exhibit a monstrous and unusual appearance, which arises from the uncommon situation of the parts of fructification, with respect to the other plants.

F E.

## FEMININE MALES.

*(Gynándria.)*

## I. TWO MALES.

*(Diándria.)*

- 1009 Órchis.  
 1010 Satýrium.  
 1001 Óphrys.  
 1012 Serápias.  
 1013 Limodórum.  
 1014 Arethúfa.  
 1423 Dísa.  
 1015 Cypripédium.  
 1016 Epidéndrum.  
 1424 Forstéra.  
 1272 Gunnéra.

## II. THREE MALES.

*(Triándria.)*

- 1017 Sicyrínchium.  
 1018 Ferrária.  
 1326 Salácia.  
 1273 Stilágo.

## III. FOUR MALES.

*(Tetrándria.)*

- 1019 Nepénthes.

## IV. FIVE MALES.

*(Pentándria.)*

- 1020 Ayénia.  
 1327 Glúta.  
 1021 Passiflóra.

## V. SIX MALES.

*(Hexándria.)*

- 1022 Aristolóchia.  
 1023 Pístia.

## EIGHT MALES.

*(Octándria.)*

- 1425 Scopólia.

## TEN MALES.

*(Decándria.)*

- 1024 Kleinhóvia.  
 1025 Heliçtéres.

## TWELVE MALES.

*(Dodecándria.)*

- 1232 Cýtinus.

## MANY MALES.

*Polyándria.*

- 1027 Xylópia.  
 1026 Grewia.  
 1238 Ambrosínia.  
 1028 Árum.  
 1029 Dracóntium.  
 1030 Cállá.  
 1031 Póthos.  
 1032 Zostéra.

## I. TWO

# I. TWO MALES. (Diandria.)

1009. ORCHIS. \* Tournef. 247. Limodorum  
Tournef. 250. Saloop.

CAL. Spathes straggling. Spadix simple.

Perianth none.

COR. Petals five; three exterior, two interior converging upward into an helmet.

Nectary one-leaved, affixed to the receptacle on the inferior side between the division of the petals: the upper lip erect, very short: under lip large, expanding, broad. Tube horn-form behind, nodding.

STAM. Filaments two, very slender, very short, sitting on the pistils. Anthers inverse-egg'd, erect, covered with the two-cell'd duplicature of the upper lip of the nectary.

PIST. Germ oblong, contorted, beneath. Style adjoined to the upper lip of the nectary, very short. Stigma compress'd, obtuse.

PER. Capsule oblong, one-cell'd, three-keel'd, three-valved, gaping three ways under the keels, cohering at the top and bottom.

SEEDS numerous, very small, sawdust-form.

1010. SATYRIUM. Lizard-flower.

CAL. Spathes straggling. Spadix simple.

Perianth none.

COR. Petals five, egg-oblong: three exterior, two interior converging upward into a helmet.

Nectary one-leaved, annexed to the receptacle on the inferior side between the division of the petals. Upper lip erect, very short; under lip flat, pendulous, prominent behind in a bag-form purse.

STAM. Filaments two, very slender, very short, sitting on the pistil. Anthers inverse-egg'd, covered with the two-cell'd duplicature of the upper lip of the nectary.

PIST. Germ oblong, contorted, beneath. Style adjoined to the upper lip of the nectary, very short. Stigma compress'd, obtuse.

PER. Capsule oblong, one-cell'd, three-keeled, three-valved, gaping three ways under the keels, cohering at the top and bottom.

SEEDS numerous, very small, sawdust-form.

1011. OPH.

1011. *OPHRYS*. \* *Ophrys Tournef.* 250. *Two-blade.*CAL. *Spathes* straggling. *Spadix* simple.*Perianth* none.COR. *Petals* five. oblong, converging upward, equal; two of these are exterior.*Nectary* longer than the petals, depending, rather keel'd behind only.STAM. *Filaments* two, very short, sitting on the pistil. *Anthers* erect, covered with the interior margin of the nectary.PIST. *Germ* oblong, contorted, beneath. *Style* growing to the interior margin of the nectary. *Stigma* obscure.PER. *Capsule* nearly egg'd, three-cornered, obtuse, striated, three-valved, one-cell'd, gaping at the keeled angles.SEEDS numerous, sawdust-form. *Receptacle* linear, growing to each valvelet of the pericarp.OBS. O. *Corallorhiza* has four stamens or two in each cell. R.1012. *SERAPIAS*. \* *Helleborine Tournef.* 249. *Helleborine.*CAL. *Spathes* straggling. *Spadix* simple.*Perianth* none.COR. *Petals* five, egg-oblong, erect-expanded, converging upward.*Nectary* the length of the petals, excavated at the base, honey-bearing, egg'd, gibbous beneath, three-cleft, acute: the intermediate part hearted, obtuse, three-toothed at the base with a two-cleft scar.STAM. *Filaments* two, very short, sitting on the pistil. *Anthers* erect, placed under the upper lip of the nectary.PIST. *Germ* oblong, contorted beneath. *Style* adjoined to the upper lip of the nectary. *Stigma* obscure.PER. *Capsule* inverse-egg'd, obtusely three-cornered, with three keels adjoined, three-valved, gaping under the keels, one-cell'd.SEEDS numerous, sawdust-form. *Receptacle* linear, adjoined to each valvelet of the pericarp.

1013. LIMODÓRUM. † *Gronov. virg. 110. Roy. lugdb. 16.*

CAL. *Spathes* straggling. *Spadix* simple.

*Perianth* none.

COR. *Petals* five, egg-oblong, subequal, expanding: the superior ones converging.

*Nectary* one-leaved, concave, pedicel'd, within the lowest petal, the length of the petals.

STAM. two: *Filament* an oblong body, ascending, the length of the corol. *Anthers* two, egg'd, looking forward.

PIST. *Germ* columnar, the length of the corol, beneath. *Style* thread-form, adjoined to the body of the filaments. *Stigma* funnel-form.

PER. *Capsule* columnar, three-valved, one-cell'd, gaping in the angles.

SEEDS numerous, sawdust-form.

1014. ARETHUSA. † *Gron. Orchidion Mitch. 19.*

CAL. *Spathe* leafy.

*Perianth* none.

COR. grinning. *Petals* five, oblong, subequal, two exterior, all converging into an helmet.

*Nectary* one-leaved, tubular at the base within the bottom of the corol, two-parted: the *under lip* reflected, broad, wrinkled, the length of the petals, propending; the *upper lip* linear, very tender, adjoined to the style, lobed at the top.

STAM. *Filaments* two, very short, sitting on the top of the pistil. *Anthers* egg'd, compress'd, covered with the duplicature of the under lip of the nectary.

PIST. *Germ* oblong, beneath. *Style* oblong, incurved, cloathed with the interior lip of the nectary. *Stigma* funnel-form.

PER. *Capsule* egg-oblong, one-cell'd, three-valved, gaping at the angles.

SEEDS numerons, chaffy.

Obs. *The under lip of the Nectary is adjoined to the style.* Syst Veg. R.

1423. *DISA. Berg. cap. S.*

CAL. *Spathe* one-valved, pointed, oblong, longitudinally gaping on one side.

COR. *Petals* three, egg'd, expanding, large, subequal: the *superior* an odd one, somewhat obtusely horned at the base behind.

STAM. *Filaments* awl'd. *Anthers* two, conjoin'd in a lanced form rather shorter than the corol, awl'd at the base, gaping, riding upon the style.

The dorsal petal of the stamens two-parted, shorter than the stamens. *Divisions* oblong, obtuse, converging.

PIST. *Germ* beneath, the length of the spathe. *Style* tongued, short, excavated at the base, two-horned backward.

PER. *Capsule* oblong, three-valved.

SEEDS numerous, minute.

1015. *CYPRIPEDIUM*. \* (*Foot of Venus*) *Calceolus Tournef.* 249. *Lady's slipper.*

CAL. *Spathes* straggling. *Spadix* simple.

*Perianth* none.

COR. *Petals* four or five, lance-linear, very long, expanding, erect. *Nectary* within the lowest petal, shoe-form, inflated, obtuse, hollow, shorter than the petals, broader: the *upper lip* egg'd, flat, inflected, small.

STAM. *Filaments* two, very short, sitting on the pistil. *Anthers* erect, covered with the upper lip of the nectary.

PIST. *Germ* long, contorted, beneath. *Style* very short, adjoined to the upper lip of the nectary. *Stigma* obscure.

PER. *Capsule* inverse-egg'd, obtusely three-cornered: with three futures, under which gaping at the angles, three-valved, one-cell'd.

SEEDS numerous, very small. *Receptacle* linear, adjoined longitudinally to each valvelet of the pericarp.

1016. EPIDENDRUM. \* (*Tree-climber*). H.P.B.  
127. *Vanilla Plum.* 28. *Vanellœ.*

CAL. *Spathes* straggling. *Spadix* simple.  
*Perianth* none.

COR. *Petals* five, oblong, very long, most expanding.

*Nectary* tubular at the base, top-shape, placed downward within the petals, the mouth oblique, two-cleft: the upper lip very short, three-cleft; the under one produced to a point.

STAM. *Filaments* two, very short, sitting on the pistil. *Anthers* covered with the upper lip of the nectary.

PIST. *Germ* slender, long, contorted, beneath. *Style* very short, adjoined to the upper lip of the nectary. *Stigma* obscure.

PER. *Silique* very long, columnar, fleshy.

SEEDS numerous, very minute.

OBS. *Most of the species are the parasites of Trees.*

1424. FORSTERA. *Forst. Aët. ups.* v. 3. p. 184. S.

CAL. *Perianth* double; the exterior one beneath, three-leaved, lateral; with oblong, acute leaflets: the interior one above, six-cleft; with erect, oblong, concave leaflets.

COR. one-petal'd, tube-bell'd. *Tube* the length of the calyx. *Border* six-parted: the divisions oblong, obtuse, expanded, reflected at the top, equal.

*Nectary*; *Scalelets* two, inverse-egg'd, petal-form, affixed to the style on both sides under the stigma.

STAM. *Filaments* two, very short, each affixed to the style between the stigma and scalelet of the nectary under the stigma. *Anthers* inverse-egg'd.

PIST. *Germ* beneath, oval. *Style* cylindric, erect, the length of the tube of the corol. *Stigmas* two, broad, expanding, somewhat bearded.

PER. *Capsule* oval, one-cell'd.

SEEDS numerous, sawdust-form, affixed to the columnar receptacle.

## 1272. GUNNÉRA.

CAL. *Ament* verticiell'd: the *scales* one-leaved, one-flower'd, bristly, the length of the flower, permanent.

*Perianth* none, except the two-tooth'd crust of the seed.

COR. none.

STAM. *Filaments* two, very short, opposite, sitting on the sides of the germ on the outside of the teeth. *Anthers* oblong.

PIST. *Germ* egg'd, two-tooth'd at the top. *Styles* two, short, awl'd, between the teeth of the germ. *Stigmas* simple.

PER. none.

SEED one, egg'd, barked with the perianth-crust.

## T H R E E M A L E S.

(*Triandria.*)

1017. SISYRÍNCIUM. \* *Bermudiana* Tournef.

208. *Dill. elth.* 41. f.

49. 48. *Bermudiana.*

CAL. universal *spathe* two-edg'd, two-leaved: the *valvelets* compress'd, keel'd, pointed.

COR. *Petals* fix, oblong, inverse-egg'd, with a point, erect-expanding, flat.

STAM. *Filaments* three, very short, from the coat of the style. *Anthers* two-cleft beneath, affixed to the style at the base of the stigma.

PIST. *Germ* inverse-egg'd, beneath. *Style* awl'd, straight, shorter than the corol. *Stigma* three-cleft, reflected.

PER. *Capfule* inverse-egg'd, three-sided, three-cell'd, three-valved.

SEEDS many, roundish.

OBS. Schreber, after Adanson, gave a correct character of the genus in *Nov. Act. A. N. C. Tom.* 3. obs. 75. & *Tom.* 4. p. 145. R.

1018. FER-

1018. FERRÁRIA. † *Burm.*

CAL. *Spathes* two, alternate, keel'd, involute; each one-flower'd.

COR. *Petals* six, oblong, pointed, revolute, wave-curved: the alternate ones less.

STAM. *Filaments* three, sitting on the style. *Anthers* roundish, twin, shaggy.

PIST. *Germ* beneath, roundish, three-sided, obtuse. *Style* simple, erect. *Stigmas* three, two-cleft, cowed, fringe-curved.

PER. *Capsule* oblong, three-sided, thicker above, three-cell'd, three-valved.

SEEDS numerous, roundish.

OBS. *Burm.* gives the Character in *Nov. Act. A. N. Cur. Tom. 1. p. 201. R.*

## 1326. SALÁCIA. †

CAL. *Perianth* one-leaved, five-parted, very short, expanding: the divisions egg'd, acute, permanent.

COR. *Petals* five, roundish, sessile.

STAM. *Filaments* none. *Anthers* three, twin, divaricated at the base, sitting on the top of the germ.

PIST. *Germ* roundish, larger than the calyx. *Style* very short, between the anthers. *Stigma* simple.

PER.

SEED.

OBS. *The genus from the character is nearest to Stilago, but different in habit, I have not seen the fruit, perhaps three-grained.*

## 1273. STILÁGO.

CAL. *Perianth* one-leaved, hemispheric, very intire-threelobed.

COR. none.

STAM. *Filaments* three, sitting on the germ, expanding, longer than the calyx.

PIST. *Germ* above, roundish. *Style* cylindric, permanent, shorter than the stamens. *Stigma* warty.

PER. *Berry* globular.

SEED.

## F O U R M A L E S.

(Tetrandria.)

## 1019. NEPENTHES. †

CAL. *Perianth* four-parted: the *divisions* roundish, permanent.

COR. none.

STAM. *Filaments* scarcely any. *Anthers* four, adjoined to the top of the style.PIST. *Germ* very slender. *Style* awl'd, the length of the calyx. *Stigma* obtusish.PER. *Capsule* oblong, columnar, lop'd, obscurely quadrangular, four-cell'd, four-valved, gaping longitudinally.

SEEDS numerous, chaffy, pointed, shorter than the capsule.

OBS. *I have seen the pistil obscurely: Is it in distinct flowers?*

## F I V E M A L E S.

(Pentandria.)

## 1020. AYÉNIA. \*

CAL. *Perianth* five-leaved: the *leaflets* expanding, egg'd, acute, withering.COR. five-petal'd, united at the top to the nectary in a flat star: the *claws* capillary, very long bow'd outward. *Petals* inverse-hearted, resupine, with a club'd dagger looking upward at the top.*Nectary* bell'd, sitting on a *column* cylindric, erect, the length of the calyx: the *border* five-lobed, depress'd, margined.STAM. *Filaments* five, very short, inserted into the margin of the nectary. *Anthers* roundish, (the whole covered with the border of the corol.)PIST. *Germ* roundish in the bottom of the nectary. *Style* cylindric. *Stigma* obtuse, five-cornered.PER. *Capsule* five-grained, roundish, murex'd, five-cell'd, five-partible.

SEEDS solitary, oblongish, covered with the cell of the capsule.

OBS. *The petals being carefully separated from the nectary by a needle, the strange flower appears more natural. Spec. 1. has given the character; I have not, myself, seen the rest.*

1327. GLÜ-

## 1327. GLUTA. \*

CAL. *Perianth* one-leaved, finely membranous, bell'd, obtuse, shorter than the germ, deciduous.

COR. *Petals* five, lanced, longer than the calyx, expanding above, glued below the middle to the column of the germ.

STAM. *Filaments* five, bristly, middle-size, inserted into the top of the column. *Anthers* versatile, roundish.

PIST. *Germ* inverse-egg'd, sitting on the oblong column. *Style* thread-form, middle-size. *Stigma* simple.

PER.

SEED.

OBS. *The petals being separated from the column of the germ, the situation of the stamens will be as in Passiflora.*

1021. PASSIFLORA. \* *Granadilla Tournef.* 124.  
*Dill. elth.* 137. 138. *Murucuja*  
*Tournef.* 125. *Passion Flower.*

CAL. *Perianth* five-parted, flat, coloured the same form with the petals.

COR. *Petals* five, semilanced, flat, obtuse, the size and form of the calyx.

*Nectary* a triple crown: the exterior one longer, surrounding the style within the petals, more contracted above.

STAM. *Filaments* five, awl'd, annexed to the column at the base of the germ, expanding. *Anthers* incumbent, oblong, obtuse.

PIST. Columnar, cylindric, straight; on whose top sits the roundish germ. *Styles* three, thicker above, expanded. *Stigmas* headed.

PER. *Berry* fleshy, rather egg'd, one-cell'd, pedicel'd.

SEEDS numerous, egg'd, aril'd.

*Receptacle* of the seeds triple, longitudinally adjoining to the bark of the pericarp.

OBS. Of *Granadilla T.* *The nectary consists of fibres placed in an orb.*  
 Of *Murucuja T.* *The nectary consists of a conic, lop'd membrane.*  
*P. suberosa (corky) is destitute of petals.*

## S I X M A L E S.

(Hexandria.)

1022. ARISTOLÓCHIA. \* *Tournef.* 71. *Birthwort.*

CAL. none.

COR. one-petal'd, tubular, irregular; the *base* bellied, subglobular, wreathed: *Tube* oblong, sixcorner-cylindric. *Border* dilated, extended below into a long tongue.STAM. *Filaments* none. *Anthers* six, adjoined beneath the stigmas, four-cell'd.PIST. *Germ* oblong, beneath, angled. *Style* scarcely any. *Stigma* subglobular, fix-parted, concave.PER. *Capsule* large, fix-angled, fix-cell'd.

SEEDS many, depresso'd, incumbent.

OBS. *The fruit varies in form, in some it is roundish, in others long.*1023. PISTIA. † *Kodda-pail Plum.* 39. *Jacq. amer.* 234.

CAL. none.

COR. one-petal'd, tubular, unequal, contracted in the middle: the *border* ear-form, erect, pointed, internally plaited with a fold on all sides.STAM. *Filament* from the side of the corol opposite to a part of the lowest cleft, erect, girt at the base with a membranous disk, from thence tongued, on whose top sit the *Anthers* 6 or 8, roundish, expanding.PIST. *Germ* oblong, adjoined to the bottom of the corol, *Style* thick, erect. *Stigma* obtuse, somewhat targetted.PER. *Capsule* egg'd, compress'd, one-cell'd.

SEEDS numerous, oblong, affixed to the back of the capsule.

EIGHT

*EIGHT MALES.*

(*Octandria.*)

1425. SCOPÓLIA. S.

CAL. *Common perianth* two-leaved, many-flowered: the *leaflets* equal, oblong, obtuse, concave, nerved, smooth.

*Proper perianth* none.

*Flowers* many, small, villous, sessile.

COR. funnel-form, four-cleft, villous, beneath: the *teeth* subequal, obtusish.

STAM. *Filaments* four, sitting in a circle on the top of the germ, erect, short, thread-form. *Anthers* in these filaments four, converging into a column, (on which sits another column of four anthers destitute of filaments), angular.

PIST. *Germ* above, erect, smooth, terminated with bristles intermixed with the filaments. *Style* none. *Stigma* short, acute.

PER.

SEED.

*TEN MALES.*

(*Decandria.*)

1024. KLEINHÓVIA. †

CAL. *Perianth* five-leaved, (the *leaflets* oblong, subequal; the inferior one a little shorter), deciduous.

COR. *Petals* five, lanced, sessile, rather longer than the calyx: the highest one shorter, broader, vaulted.

*Nectary* central, sitting on a column the length of the calyx, ascending at the top, bell'd, very small, half-fivecleft: the *divisions* recurved.

STAM. *Filaments* within the nectary, ten, awl'd, the length of the nectary; the alternate ones shorter. *Anthers* roundish.

PIST. *Germ* in the hollow of the nectary, egg'd. *Style* thread-form, the length of the stamens. *Stigma* simple.

PER. *Capsule* five-lobed, five-angled, five-capsuled, inflated.

SEEDS solitary, roundish.

QBS. *It is allied to Azenia, but very different.*

1025. **HELICTÈRES.** \* *Jacq. amer.* 235. *Iflora*  
*Plum.* 37. *Screw-Tree.*

**CAL.** *Perianth* one-leaved, tubular, half-egg'd, obliquely expanding, unequally five-cleft, leathery.

**COR.** *Petals* five, oblong, equal in breadth, affixed to the receptacle, longer than the calyx; the *claws* long, with a lateral toothlet at the base on each side.

*Nectary* with leaflets five, petal-form, lanced, very small, covering the germ.

**STAM.** *Filaments* five, ten or more, very short. *Anthers* oblong, lateral.

**PIST.** *Receptacle* thread-form, very long, recurved, bearing the egg'd Germ at the top. *Style* awl'd, longer than the germ. *Stigma* rather five-cleft.

**PER.** *Capsules* five, often spirally twisted, one-cell'd.

**SEEDS** numerous, angular.

**OBS.** *Jacquin*, and others have observed the flowers in some species to be twelve-male, many-male, and the capsules straight. And there is a petalless species. R.

## T W E L V E M A L E S .

(*Dodecandria.*)

1232. **CYTINUS.** \* *Hypocistis Tournef. inst.* 477.  
*Thyrifine. Gleditsch. verm. Abhandl. T.* 1.  
 226. *Tab.* 2.

**CAL.** *Perianth* one-leaved, tube-bell'd, permanent. *Tube* cylindric. *Border* expanded, four-parted, obtusish, coloured.

**COR.** none.

**STAM.** sixteen. *Filaments* none. *Anthers* oblong, adjoined to the top of the style under the stigma, oblong, two-valved.

**PIST.** *Germ* beneath, rounded. *Style* cylindric, nearly the length of the calyx. *Stigma* eight-cleft, gibbous, obtuse.

**PER.** *Berry* crowned, roundish, leathery, eight-cell'd.

**SEEDS** numerous, minute, roundish.

MANY

# M A N Y M A L E S.

(Polyandria.)

1027. *XYLOPIA*. † *Xylopricon Brown.*CAL. *Perianth* one-leaved, bell'd, rather four-cleft, obtusifish.COR. *Petals* six, sessile. line-lanced, leathery: the three exterior ones thicker.STAM. *Filaments* none. *Anthers* numerous, sitting on the germ, oblongish.PIST. *Germ* sessile, egg'd, covered with anthers. *Style* cone-awl'd, the length of the corol. *Stigma* simple.PER. *Drupe* dry, roundish, one-cell'd, beaked.SEED *Nucleus* roundish.1026. *GREWIA*. \*CAL. *Perianth* five-leaved: the *leaflets* lanced, erect, leathery, coloured within, expanding, deciduous.COR. *Petals* five, the form of the calyx, often less, end-nick'd at the base.*Nectary* from a scalelet inserted into each petal at the base, thickish, incurved, inclined to the margin, surrounding the style.STAM. *Filaments* very numerous, the length of the petals, bristly, inserted into the base of the germ. *Anthers* roundish.PIST. *Germ* pedicel'd, roundish, the *Receptacle* columnar, erect, girt with a five-cornered margin. *Style* thread-form, the length of the stamens. *Stigma* obtuse, four-cleft.PER. *Berry* four-lobed, four-cell'd.

SEEDS solitary, globular, two-cell'd.

1238. *AMBROSINIA*. *Bassii.*CAL. *Spathe* one-leaved, cowl'd, convolute at the base, converging at the top.

COR. none.

STAM. *Filament*: A membranous partition dividing the spathe into two cells communicating above. *Anthers* adjoined to the line of the filament of the interior chamber, very numerous, digested in distinct order.*Nectaries* two, roundish, concave, at the base of the *Anthers*.PIST. in the interior cell of the spathe. *Germ* roundish. *Style* cylindric, shorter than the spathe. *Stigma* obtuse.PER. *Capsule*? roundish, one-cell'd.

SEEDS very numerous, egg'd, nestling.

1228. *ARUM*.

1028. ARUM. \* *Tournef.* 69. *Arifarum Tournef.* 70.  
*Colocasia Boerb.* 2. p. 73. *Dracuncu-*  
*lus Tournef.* *Wake Robin.* *Cuckow pint.*

**CAL.** *Spathe* one-leaved, very large, oblong, convolute at the base, converging at the top, compress'd in the belly, coloured within. *Spadix* club'd, very simple, rather shorter than the spathe, coloured, fenced below by the germs, withering above the germs.

**COR.** none.

**STAM.** *Filaments* none, except the nectaries with a thick base, ending in *tendrils* thread-form, of two orders, proceeding from the middle *spadix*. *Anthers* numerous, sessile, four-cornered, interposed in the double order of the *tendrils*, adjoined to the *spadix*.

**PIST.** *Germes* numerous, cloathing the base of the *spadix*, placed beneath the *stamens*, inverse-egg'd. *Styles* none. *Stigmas* bearded with hair.

**PER.** *Berries* as many, globular, one-cell'd.

**SEEDS** many, roundish.

**OBS.** *The structure of the flower is wonderful and without equal, which has afforded matter of disputation to the most eminent Botanists. See Tournef. Malpig. Dillen. Rivin, &c.*

*The Receptacle is elongated into a naked club, retaining the germs at the base, the stamens within the germs are affixed to the receptacle, (a natural prodigy), not wanting the assistance of elevating filaments: hence the flower may be said to be inverted. What are those tendrils mention'd under the filaments?*

*Arum T. was separated from Dracunculus on account of its arrowed intire leaves.*

*Dracunculus T. was distinguished from Arum by its many-cleft leaves.*

*Arifarum T. has a spathe with an incurved top; a spadix incurved; the Anthers are supported by filaments. In these things it slightly recedes from Arum, yet it does not constitute a distinct genus.*

1029. DRACONTIUM. \* *Dragons.*

CAL. *Spathe* boat-form, leathery, one-valved, very large. *Spadix* very simple, cylindric, very short, every where covered with the fructifications digested into a head; of each of which there is no *proper perianth*, unless you so name the corol.

COR. *proper* five-leaved, concave. *Petals* egg'd, obtuse, subequal, coloured.

STAM. on each the *Filaments* seven, linear, depress'd, erect, equal, longer than the corollet. *Anthers* quadrangular, twin, oblong, obtuse, erect.

PIST. *Germ* somewhat egg'd. *Style* columnar, straight, the length of the stamens. *Stigma* obscure, three-cornered.

PER. on each a roundish *berry*.

SEEDS very numerous.

1030. CÁLŁA. \* *Provenzalia Petit. p. 45. Anguina Trew. African Arum.*

CAL. *Spathe* one-leaved, egg-hearted, pointed, colour'd upward, very large, expanding, permanent. *Spadix* finger-form, very simple, erect, covered with the fructifications.

COR. none.

STAM. *Filaments* few, intermixed with the germs, the length of the pistils, permanent, compress'd, lop'd. *Anthers* simple, lop'd, sessile.

PIST. to each the *Germ* roundish, obtuse. *Style* simple, very short. *Stigma* acute.

PER. *Berries* as many, fourcorner-globed, pulpy, one-cell'd.

SEEDS many, (6 or 12), oblong, cylindric, obtuse at both ends.

OBs. Since there are many seeds in each berry, it follows, that all the pistils belong to as many florets, and are not parts of one and the same flower, but as the want of the perianth and corol does not distinguish the stamens, it is difficult to assign a certain number of them to each floret; I should conjecture, from the analogy of *Palmis*, the appropriate number to be six stamens in each floret.

In *C. palustris* (marsh) The whole *spadix* is covered with stamens and pistils mixed. But in *C. æthiopica* (ethiopian) the inferior part alone is thus covered, and the superior part with the stamens only.

## 1031. PÓ-

## 1031. PÓTHOS. †

- CAL. *Spathe* globular, one-leaved, gaping on one side.  
*Spadix* short, very simple, thickened, every where covered  
 with sessile fructifications.  
*Perianth* none, (unless you adopt the corol).  
 COR. *Petals* four, wedge-form, oblong, erect.  
 STAM. *Filaments* four, broadish, erect, narrower than the petals, and  
 of the same length. *Anthers* very small, double.  
 PIST. *Germ* a paralleloepid, lop'd. *Style* none. *Stigma* simple.  
 PER. *Berries* aggregate, roundish, two-cell'd.  
 SEED one, roundish.

1032. ZOSTÉRA. \* *Alja Raj. angl.* 3. p. 52.  
*Ruppia act. angl.* 1741. p. 217.

- CAL. The base of the *leaf* sheathing, longitudinally converging,  
 end-nick'd above on both sides, including the *spadix*.  
*Spadix* linear, flat, furnish'd above with stamens on one  
 side, and beneath with pistils.  
*Perianth* none.  
 COR. none.  
 STAM. *Filaments* alternate, many, very short, inserted into the *spadix*  
 above the germs. *Anthers* egg-oblong, nodding, obtuse,  
 awl'd backwards above, incurved.  
 PIST. *Germs* fewer, egg'd, compress'd, two-edg'd, subpedicel'd,  
 affixed at the top, nodding, alternate. *Styles* none. *Stigmas*  
 capillary, simple.  
 PER. membranous, unchanged, longitudinally gaping at the lateral  
 angle.  
 SEED one, egg'd.

C L A S S

## CLASS XXI.

## ONE HOUSE.

(Monoécia.)

The *male* flower is furnished with stamens and destitute of a pistil.

The *female* flower is destitute of stamens, and furnished with a pistil.

The *androgynous* plant produces both male and female flowers on the same individual.

The Class *one house* comprehends androgynous flowers only, without hermaphrodite ones; that is, male and female flowers distinct, but growing from the same root.

The *common Calyx*, if it comprehends florets different in sex, enters not into the class one house, lest confusion should arise; and therefore the various genera of umbel'd or compound flowers are excluded.

The various *methods* of Systematists, have their various uses, in particular they have exhibited the species of the parts of fructification. The *sexual* method delivers flowers distinct in sex, separately, that it might possess all the modes of the generation of plants; which is not destitute of use in their culture. If therefore the genera of the classes distinct in sex had been mix'd with the proceeding ones, the method would have been imperfect; deficient in use; and whilst it endeavour'd to combine the cone-bearing, and three-seeded plants with those of the class one brotherhood; and the gourd-like plants with those of the class confederate males, would have been wreck'd on Scilla by avoiding Charybdis; or would have continued for ever undetermined concerning Nyssa, Gleditsia, Mimosa, &c. on account of the different number of stamens in the flowers of different sex; to these might be added,

Callitriche Verna (*vernal*), Rumex spinosus (*thorny*), Arum triphyllum (*three-leaved*), Mercurialis ambigua (*ambiguous*), Glycine monoica (*one house*) and other plants.

ONE

## ONE HOUSE.

(Monoécia.)

## I. ONE MALE.

(Monándria.)

- 1034 Zannichéllia.  
 1035 Ceratocárpus.  
     Radermáchia.  
 1420 Artocárpus.  
 1033 Cynomórium.  
     Myrística.  
 1203 Chára.  
 1036 Elatérium.  
 1427 Phyllánche.  
 1428 Cafuarína.  
 1429 Ægópricon.

II. TWO MALES.  
(Diándria.)

- 1037 Angúria.  
 1038 Lémna.

III. THREE MALES.  
(Triándria.)

- 1040 Týpha.  
 1041 Spargánium.  
 1042 Zéa.  
 1044 Trípfacum.  
 1043 Cóix.  
 1045 Olyra.  
 1046 Cárex.  
 1047 Áxyris.

- 1039 Omphaléa.  
 1048 Trágia.  
 1049 Hernándia.  
 1050 Phyllánthus.

IV. FOUR MALES.  
(Tetrandria.)

- 1274 Sperpícula.  
     Aúcuba.  
 1328 Littorélla.  
 1275 Cícca.  
 1052 Bétula.  
 1053 Búxus.  
 1054 Urtíca.  
 1055 Mórus.

V. FIVE MALES.  
(Pentándria.)

- 1277 Nephélium.  
 1056 Xánthium.  
 1057 Ambrósia.  
 1058 Parthénium.  
 1059 Íva.  
 1329 Clibádium.  
 1060 Amaránthus.  
 1276 Leéa.

## VI. SIX

<i>VI. SIX MALES.</i>	
<i>(Hexandria.)</i>	
1062	Zizánia.
1063	Phárus.
<i>VII. SEVEN MALES.</i>	
<i>(Heptandria.)</i>	
1064	Guettárda.
<i>VIII. MANY MALES.</i>	
<i>(Pölyandria.)</i>	
1065	Ceratophýllum.
1066	Myriophýllum.
1067	Sagittária.
1156	Begónia.
1098	Thelígonum.
1069	Potérium.
1070	Quércus.
1071	Júglans.
1072	Fágus.
1073	Carpínus.
1074	Córylus.
1075	Plátanus.
1076	Liquidámbér.
<i>IX. ONE BROTHERHOOD.</i>	
<i>(Monodelphia.)</i>	
1077	Pínus.
1078	Thúja.
1079	Cupréssus.
1080	Plukenétia.
1081	Dalechámpia.
1082	Acálypha.
1083	Cróton.
276	Cupánia.
1084	Játropha.
1085	Rícinus.
1086	Stercúlia.
1088	Hippómane.
1279	Stillíngia.
1278	Gnétum.
1087	Húra.
<i>X. CONFEDERATE MALES.</i>	
<i>Syngenesia.</i>	
1089	Trichosánthes.
1090	Momórdica.
1091	Cucúrbita.
1092	Cúcumis.
1098	Bryónia.
1094	Sícyos.
<i>XI. FEMININE MALES.</i>	
<i>(Gynandria.)</i>	
1095	Andráchne.
1320	Agynéia.

## I. ONE

## I. ONE MALE.

(Monandria.)

1034. ZANNICHÉLLIA. \* *Mich.* 34. *Algoidea*  
*Vaill. A.G.* 1719. *t.* 1. *f.* 1.  
*Aponogeton Pontb. anth.*  
*Graminifolia Dill. gen.* 169.  
*three-headed Pondweed.*

\* *Male Flowers*

CAL. none.

COR. none.

STAM. *Filament* one, simple, long, erect. *Anther* egg'd, erect.\* *Female Flower* near the male one.CAL. *Perianth* one-leaved, bellied, two-tooth'd, scarcely manifest.

COR. none.

PIST. *Germ*s about four, horned, converging. *Styles* as many, simple,  
rather expanding. *Stigmas* egg'd, flat, spreading outwards.

PER. none.

SEEDS as many, oblong, pointed at both ends; gibbous on one side,  
covered with bark, curved, reflected.

1035. CE-

1035. CERATOCÁRPUS. \* (*Hörn-fruit.*) Buxb.  
Gmelin. *Horn-fruited Pondweed.*

\* *Male flowers.*

CAL. one-leaved, two-parted, erect, obtuse, equal.

COR. none, unless you adopt the corol.

STAM. *Filaments* one, longer than the corol. *Anther* oval, twin.

\* *Female flowers on the same plant.*

CAL. *leaflets* two, adjoined to the germ on its whole length.

COR. none.

PIST. *Germ* egg'd, compress'd. *Styles* two, capillary. *Stigmas* simple: one upright, the other horizontal.

PER. *Capsule* two-valved, narrow below, compressed, adjoined to the seed, (from the calyx-leaflets naturally growing to the germ longitudinally) two-horned.

SEED oblong, compress'd, covered with the capsule, with a longitudinal suture on both sides, two-horned: the hornlets straight, awl'd.

OBS. Gueldenstædt in Nov. Act. Petropol. Vol. XVI. p. 553. t. 17. f. ad. 12. describes the generic character of *Ceratocarpus*, from living plants sedulously examined in their natal soil, in the following manner.

\* *Male flowers* solitary, scattered.

CAL. *Perianth* one-leaved, heart-tubed: the border pointed behind, half-mooned before, most intire.

COR. none.

STAM. *Filament* one, capillary, scarcely longer than the tube of the perianth, inserted into the bed and glued to the bottom of the calyx. *Anther* twin, erect, prominent beyond the border of the calyx.

\* *Female flowers* on the same plant with the male ones.

CAL. *Perianth* one-leaved, heart-compress'd, keel'd with an eminent nerve on both sides, rather two-cleft: the *divisions* awl'd, diverging: the *throat* in the sinus of the divisions, very narrow, resembling a slit.

COR. none.

PIST. *Germ* oblong, above. *Styles* and *Stigmas* two, capillary, passing through the throat of the calyx, expanding.

PER. *Calyx* larger, its form unchanged, cherishing the seed in its bosom, and everywhere covering it.

SEED oblong-compress'd, narrow below, adhering to the bottom of the calyx, otherwise free, cloathed with a loofish *aril*; which being withdrawn the two extremities bent downward and approximated fecede, one-pointed and intire, the other obtuse, gaping into two lips. R.

# RADERMÁCHIA. *Thunb.* Nov. gen. p. 24.

\* *Male Flowers.*

CAL. none. *Ament* cylindric, gradually thicken'd above, totally cover'd with flowers.

COR. *Petals* two, oblong, concave, obtuse, villous, white, including the filament.

STAM. *Filament* one within each corol, thread-form, diaphanous, the length of the corol. *Anthers* pyramidal.

\* *Female Flowers* on the same tree.

CAL. none, *pericarp* egg'd, cover'd with germs.

COR. none.

PIST. *Germes* convex, six-angled, very frequent. *Style* thread-form, permanent. *Stigma* one, or oftner two, capillary, revolute.

PER. *Pome* egg'd, murex'd, fleshy, many-cell'd.

SEEDS imbricated in a multiplex series, obliquely three-sided, cover'd with pulpy flesh, the size of a walnut. *Nucleus* cover'd with a thin bark.

## 1426. ARTOCÁRPUS. *Forst.* gen. n. 51. S. Bread-fruit.

\* *Male flowers* many.

CAL. *Spadix* naked without a spathe, elevated, covered with sessile florets.

*Proper Perianth* very small, two-valved: the *valvelets* equal.

COR. none.

STAM. *Filaments* proper, solitary, very short. *Anthers* oblong.

\* *Female flowers* on the same Tree.

CAL. *Spathe* two-valved, deciduous. *Spadix* egg'd, covered with numerous conjoined germs.

*Proper Perianth* none.

COR. none.

PIST. *Germes* proper, six-angled. *Style* one, thread-form. *Stigmas* one or two, capillary, revolute.

PER. *Fruit* compound, roundish, murex'd.

SEEDS on each germ solitary, oblong, terminated by an hair at the top, immerfed in the receptacle.

1033. CY-

1033. CYNOMORIUM. *Mich.* 12. *Amoen. acad.*  
7. p. 357.

\* *Male flowers* digested in an ament imbricate-wise with the female ones.

CAL. *Ament* erect, club'd, every where covered with florets.

*Proper perianth* four-leaved; three *leaflets* club'd, the fourth inferior one larger, very obtuse, channel'd.

COR. none.

STAM. *Filament* one, firm, straight, longer than the calyx-scale.  
*Anther* twin.

\* *Female flowers* mixed with male, in the same plant, and not remote from them.

CAL. *Ament* common with the male ones.

*Proper Perianth* above: the *leaflets* four, club'd, tubercled, equal'd, permanent.

COR. none.

PIST. *Germ* egg'd, beneath. *Style* one, erect, firm, expanding, the length of the calyx-scale. *Stigma* obtuse.

PER. none.

SEED one, roundish.

Obs. *I have also seen hermaphrodite, and one-male florets mixed with the rest. The whole plant is one Ament.*

MYRISTICA. *Thunb. nov. gen. 5. p. 83.*  
Nutmeg.

\* *Male Flowers.*

CAL. *Perianth* egg'd, smooth, three-cleft: the *divisions* erect-expanding.

COR. none, unless you adopt the calyx.

STAM. *Filament* one, cylindric, obtuse. *Anther* surrounding the filament under its top, striated.

\* *Female Flowers.*

CAL. *Perianth* as in the male, but gaping beneath, deciduous.

COR. none.

PIST. *Germ* above, bellied, the length of the calyx. *Style* twin, very short. *Stigmas* two, acute, very short.

PER. *Drupe* fleshy, the flesh gaping at top.

SEED *Nut* egg'd, surrounded with netted mace, smooth. *Nucleus* egg'd, pitted, smooth.

The MYRISTICA of the Supplement placed by the younger Linneus in the Class Many Males, One Female, and copy'd from thence into Murray's Systema, and in consequence into the translation of that Systema by the Lichfield Botanical Society is intirely wrong, being taken from Sonnerats description of a flower, which has nothing to do with Nutmeg. Whereas this of Thunberg is from the real flowers of Nutmeg. Dr—n—r.

1203. CHÁRA. \* *Vaill. A. G. 1719. t. 3. Hippuris Dill. gen. 2. Pont. anth.*

\* *Female flower.*

CAL. *Perianth* four-leaved: the *leaflets* awl'd, erect, permanent: the two opposite exterior ones longer.

COR. none.

PIST. *Germ* top-shape. *Style* none. *Stigma* five-cleft, oblong, deciduous.

PER. *Crust* egg'd, one-cell'd, adhering,

SEED one, egg'd, spirally striated.

\* *Male Flower* at the base of the germ, out of the calyx.

CAL. none.

COR. none.

STAM. *Filament* none. *Anther* globular, before the germ, out of the calyx, beneath.

OBS. *C. vulgaris* (common) has oblong, many-seeded berries. R: *Weis. R.*

1036. ELATÉRIUM. *Jacq. amer. 241. t. 154.*\* *Male flowers.*

CAL. none.

COR. one-petal'd, salver-form. *Tube* cylindric. *Border* five-cleft: the *divisions* lanced, channel'd on the back, the interstices furnished with a toothlet.STAM. *Filament* one, columnar. *Anther* linear, five times plaited.\* *Female flowers.*

CAL. as in the male.

COR. as in the male.

PIST. *Germ* beneath, hedge-hog'd. *Style* columnar, thickening. *Stigma* headed.PER. *Capsule* beneath, hedge-hog'd, leathery, replete with pulp, uniform, one-cell'd, two-valved, elastic.

SEEDS many.

1427. PHYLLÁNCHÉ. *Forst. gen. n. 58. S.*\* *Male Flowers.*CAL. *Perianth* above, three-leaved: the *leaflets* awl'd, erect.COR. one-petal'd, funnel-form. *Tube* enlarged upward, expanded. *Border* five-parted, expanding, the length of the tube.STAM. *Filament* one, inserted into the base of the tube, marked with a gland on both sides, scarcely longer than the border, thread-form, erect. *Anther* globular, furrowed.PIST. *Germ* without a style.\* *Female flowers* which Forster says are on different plants, which I doubt.

CAL. as in the former.

COR. as in the former.

PIST. *Germ* top-shape, beneath. *Style* thread-form, the length of the stamen in the male flower, thickening upwards. *Stigma* headed, four-cornered, from four tubercles.PER. *Berry* or *Capsule* one-cell'd, many-seeded.

SEED.

CASUARINA. *Thunb. nov. gen. p. 53. Forst.*  
*gen. p. 58. Supplem. Plant. p.*  
*62. n. 1428.*

\* *Male flowers.*

CAL. none, but an Ament thread-form, imbricated; *scales* minute, egg'd, acute, fringed, one-flower'd, about 8 in a verticil.

COR. none.

STAM. *Filament* one inserted within each leaflet, capillary, rather longer than the leaflet.

\* *Female flowers.*

*Strobile* egg'd, *scales* egg'd, acute, keel'd, fringed.

COR. none.

PIST. *Germ* minute. *Style* thread-form, two-cleft, protruded, longer than the strobile. *Stigmas* two-cleft.

PER. *Strobile* oblong. *Capsule* conic, two-valved, the valvelets gaping perpendicularly.

SEED solitary, conic, membranous on the margin and top.

OBS. *There are eight stamens to each joint, but one only within the top of each leaflet of the Ament. Thunb.*

1429. ÆGÓPRICON. S.

\* *Male flowers* in an egg'd ament, small.

CAL. *Perianth* one-leaved, tubular, three-cleft.

COR. none.

STAM. *Filament* one, longer than the calyx, erect. *Anther* egg'd.

\* *Female flowers* on the same plant, solitary.

CAL. as in the Male.

COR. none.

PIST. *Germ* egg'd. *Styles* three, divaricated. *Stigmas* simple, permanent.

PER. *Berry* globular, three-grain'd within, three-cell'd, with a two-cleft dagger.

SEEDS solitary, angular on one side.

II. TWO

## II. T W O M A L E S.

(*Diandria.*)

### 1037. ANGÚRIA. *Jacq. amer.* 242.

\* *Male flowers.*

CAL. one-leaved, five-cleft, bellied at the base: the *divisions* lanced, short.

COR. five-petal'd, expanding, adjoined to the border of the calyx. *Anther* creeping upward and downward.

\* *Female Flowers* on the same plant.

CAL. as in the Male.

COR. as in the Male.

STAM. *Filaments* as in the Males. *Anthers* none.

PIST. *Germ* beneath, oblong. *Style* half-two-cleft. *Stigmas* two-cleft, acute.

PER. *Pome* oblong, quadrangular, two-cell'd.

SEEDS numerous, oval, compress'd, nestling.

### 1038. LÉMNA. \* *Lenticula Mich.* 11. *Dill. gen.* 6. *Hydrophace Buxb. cent.* 11. *t.* 37. *f.* 2. *Duck-meat.*

\* *Male flower.*

CAL. one-leaved, roundish, gaping on the side, dilated obliquely outward, obtuse, expanding, depress'd, large, intire.

COR. none.

STAM. *Filaments* two, awl'd, incurved, the length of the calyx. *Anthers* twin, globular.

PIST. *Germ* egg'd. *Style* short, permanent. *Stigma* obscure.

PER. abortive.

\* *Female flower* on the same plant with the male.

CAL. as in the male.

COR. none.

PIST. *Germ* somewhat egg'd. *Style* short, permanent. *Stigma* simple.

PER. *Capsule* globular with a point, one-cell'd.

SEEDS few, oblong, acute both ways, nearly the length of the capsule, striated on one side.

### III. THREE MALES. (Triandria.)

#### 1040. TYPHA. \* *Tournef.* 301. *Cat's-tail, Reed-mace.*

\* *Male flowers* numerous on an ament terminating the culm.

CAL. *Common Ament* cylindric, very dense, constant.

*Proper Perianths* three-leaved, bristly.

COR. none.

STAM. *Filaments* three, capillary, the length of the calyx. *Anthers* oblong, pendulous.

\* *Female flowers* numerous on an ament, surrounding the same culm, very compactly digested.

CAL. *Hairs* pappus'd.

COR. none.

PIST. *Germ* sitting on a bristle, egg'd. *Style* awl'd. *Stigma* capillary, permanent.

PER. none. *Fruit* numerous, constituting a cylinder.

SEED one, egg'd, furnished with a style, sitting on a bristle. *Pappus* capillary, affixed as it were to the seed-bearing bristle, the length of the pistil.

#### 1041. SPARGANIUM. \* *Tournef.* 302. *Burr-reed.*

\* *Male flowers* numerous, collected in a head.

CAL. *Common Ament* roundish, every where very densely imbricated, constant.

*Proper Perianths* three-leaved, linear, deciduous.

COR. none.

STAM. *Filaments* three, capillary, the length of the calyx. *Anthers* oblong.

\* *Female flowers.*

CAL. as in the male. *Common receptacle* roundish.

COR. none.

PIST. *Germ* egg'd, ending in a short, awl'd *Style*. *Stigmas* two, acute, permanent.

PER. *Drupe* juiceless, top-shape with a point, angular below.

SEEDS *Nuts* two, bony, egg-oblong, angular.

OBS. *Tournefort observes that the seed is in some one-cell'd, in others two-cell'd.*

#### 1042. ZEA.

1042. ZÉA. \* Mays Tournef. 303. 304. 305. Indian,  
or Turkey Wheat.

*Male* flowers disposed in loose distinct spikes.

CAL. *Glume* two-flower'd, two-valved: the *valvelets* egg-oblong, awnless.

COR. *Glume* two-valved: the *valvelets* oblong, awnless, the length of the calyx.

*Nectaries* two, compress'd, very short.

STAM. *Filaments* three, capillary. *Anthers* quadrangular, four-cell'd, gaping at the top.

\* *Female* flowers in a very dense spike beneath the males, in the same plant, covered with leaves.

CAL. proper *Glume* two-valved: the *scales* roundish, thick, very short, the exterior one thicker.

COR. two-valved: the *valvelets* membranous, broad, very short, permanent.

PIST. *Germ* very small. *Style* thread-form, of all the longest, pendulous. *Stigma* simple, pubescent towards the top.

PER. none. *Common receptacle* very large, long, excavated, in which the fruit is half immersed, and girt with the calyx and proper corol.

SEEDS solitary (after each flower) roundish, angular at the base, compress'd.

1044. TRIPSACUM. \*

\* *Male* flowers.

CAL. *Glume* two-flower'd on both sides, two-valved: the *valvelets* boat-form, parallel.

COR. *Glume* two-valved, membranous, less than the calyx.

STAM. *Filaments* three, capillary. *Anthers* oblong.

\* *Female* flowers on the same plant.

CAL. *Glume* two or four-parted, gaping in sinuses at the base.

COR. *Glume* two-valved, membranous.

PIST. *Germ* oblong. *Styles* two, capillary. *Stigmas* oblong, villous.

PER. *Glumes* unchanged, as if perforated with sinuses.

SEED one, oblongish.

OBS. *T. hermaphroditum (hermaphrodite)* has the calyx-valvelet four-parted.

1043. CŌ-

1043. COIX. \* *Lacryma Job. Tournef. 306. Job's-tears.*

\* *Male flowers digested in a loose spike.*

CAL. *Glume* two-flowered, two-valved: the *valvelets* egg-oblong, obtuse, awnless: the exterior one thicker.

COR. two-valved: *valvelets* egg-lanced, the length of the calyx, very slender, awnless.

STAM. *Filaments* three, capillary. *Anthems* oblong, four-corner'd.

\* *Female flowers fewer at the base of the male spike, on the same plant.*

CAL. *Glume* two-flowered, two-valved: (the *valvelets* rounded, thick, glossy, hard: the exterior one larger), glossy.

COR. *Glume* two-valved: the exterior *valvelet* egg'd, larger; the interior narrower, less; both awnless.

PIST. *Germ* egg'd, very small. *Style* short, two-parted. *Stigmas* two, horned, longer than the flower, every where pubescent.

PER. none. The exterior *calyx-Glume* adheres closely, increases, shines, falls off, does not gape.

SEED solitary, roundish, covered with an ossified calyx.

## 1045. OLYRA. †

\* *Male flowers beneath the female ones.*

CAL. *Glume* two-valved, one-flower'd: the *valvelets* lanced: one terminated by an awn.

COR. *Glume* two-valved, the length of the calyx.

STAM. *Filaments* three, capillary, very short. *Anthems* oblong.

\* *Female flowers solitary, terminal on the same panicle.*

CAL. *Glume* two-valved, one-flowered, equal, large, spreading, the *valvelets* egg'd, concave, pointed: one with a terminal awn.

COR. *Glume* two-valved, very short, cartilaginous, awnless.

PIST. *Germ* egg'd. *Style* short, two-cleft. *Stigmas* two.

PER. *Glume* of the corol involving, falling off.

SEED egg'd, obtuse, cartilaginous.

1046. CÁ-

1046. CÁREX. \* *Cyperoides Tournef.* 299. *Scheub.*  
 10. 11. *Mich.* 32. *Scirpoides Mont.*  
 17. *Carex Dill. gen.* 13. *Mich.* 33.

\* *Male flowers digested in a spike.*

CAL. *Ament* oblong, imbricated, constant.

The *Scales* one-flower'd, lanced, acute, concave, permanent.

COR. none.

STAM. *Filaments* three, bristly, erect, longer than the calyx. *Anthers* erect, long, linear.

\* *Female flowers* on the same or (in some) on a separate plant.

CAL. *Ament* as in the males.

COR. *Petals* none.

*Nectary* inflated, egg-oblong, two-toothed at the top, contracted above, gaping in the mouth, permanent.

PIST. *Germ* three-sided within the nectary. *Style* very short. *Stigmas* three or two, awl'd, incurved, long, pointed, pubescent.

PER. none. The *Nectary* made larger cherishes the seed.

SEED one, egg-acute, three-sided, one angle oftner less.

OBS. *Scirpoides Mont. Carex Rupp. Dill. Mich. bears the male and female flowers on the same spike.*

*Cyperoides Mont. Rupp. Dill. Mich. has the male and female flowers on a separate spike.*

1047. *AXYRIS*. \* *Ceratoides Tournef. cor?*

The *Male flowers* digested in an ament.

CAL. *Perianth* three-parted, expanding, obtuse.

COR. none.

STAM. *Filaments* three, linear, expanding. *Anthers* roundish.

\* *Female flowers* scattered.

CAL. *Perianth* five-leaved, (two-leaved Syst. Veg. 706), concave, obtuse, converging, permanent: the two exterior leaflets shorter.

COR. none.

PIST. *Germ* roundish. *Styles* two, capillary. *Stigmas* pointed.

PER. none. *Calyx* closely involving the seed with its three larger leaflets.

SEED one, oblong, compress'd, obtuse, end-nick'd at the top.

OBS. *The observations of Gueldenstaedt shew that the Axyris ceratoides of Linneus constitutes a new genus between Atriplex, Urtica, and Ceratocarpus, who has therefore given it the name of Krascheninnikouia. We hope it will not be disagreeable to our Readers, if we here communicate the character of this new genus from the Author in Nov. Comm. Petropol. Vol. XVI. p. 548. t. 17.*

\* *Male flowers* rather ament-like.

CAL. *Perianth* four-leaved, permanent: the leaflets equal, obtuse, concave, converging to a globe.

COR. none.

STAM. *Filaments* four, capillary, inserted into the bed, opposite the calyx-leaflets, and the length of them. *Anthers* roundish, twin.

\* *Female flowers* on the same plant with the males.

CAL. *Perianth* one-leaved, pitcher-compressed, keeled on both sides with a furrow, nearly two cleft; the divisions horn-erect, parallel, tube-concave; the throat very narrow in the sinus of the divisions, perforated.

COR. none.

PIST. *Germ* egg'd, above. *Style* simple, passing through the throat of the perianth. *Stigmas* two, capillary, reflected.

PER. *Calyx* dilated, enlarged, cherishing and every where covering the seed in its bosom.

SEED one, egg-compress'd, cloathed with a loosish aril, which being torn off the two extremities bent downward and approximated secede, one pointed and intire, the other obtuse gaping into two lips.

*Therefore Krascheninnikouia pertains to one-house, four-male, and is to be placed after Urtica.*

1039. OMPHALEA. † *Omphalandra Brown.*\* *Male flowers.*CAL. *Perianth* four-leaved: the *leaflets* egg'd, concave.

COR. none.

STAM. *Receptacle* egg'd. *Anthers* two or three immersed in the sides of the receptacle.\* *Females* on the same plant.CAL. *Perianth* four-parted: the *divisions* egg-hearted, obtuse: the two exterior ones opposite.

COR. none.

PIST. *Germ* roundish, very short. *Style* cylindric, longer than the calyx. *Stigma* rather three-cleft, broader, obtuse.PER. *Capsule* fleshy, egg'd, three-cell'd.

SEEDS solitary, oblong.

1048. TRAGIA. \* *Plum. gen. 12. Jacq. amer. 245.*\* *Male flowers.*CAL. *Perianth* three-parted: the *divisions* egg'd, acute, flat, expanding.

COR. none.

STAM. *Filaments* three, the length of the calyx. *Anthers* roundishOBS. *Plumier* affirms this calyx to be a funnel-form petal.\* *Female* flowers on the same plant with the male ones.CAL. *Perianth* five-parted: the *leaflets* egg'd, concave, acute, permanent.

COR. none.

PIST. *Germ* roundish, three-furrow'd. *Style* one, erect, longer than the calyx. *Stigma* three-cleft, expanding.PER. *Capsule* three-grained, roundish, three-cell'd, hispid: each cell marked without at the base with two dots.

SEEDS solitary, globular.

## 1049. HER-

1049. HERNANDIA. † *Plum.* 40. *Jacq. amer.*  
245. *Jack in a box.*

*Male Flowers.*

CAL. *Involucre* partial, four-leaved, three-flowered: the *leaflets* egg'd, obtuse, most expanding.

*Perianth* none.

COR. *Petals* six, nearly egg'd, expanding: of which the three interior are narrower.

*Nectary*: six Glands, columnar, headed.

STAM. *Filaments* three, short, inserted into the receptacle. *Anthers* erect, oblong, large.

\* *Female flower.*

CAL. *Involucre* common with the males.

*Perianth* beneath, one-leaved, bell'd, intire, permanent.

COR. *Petals* eight: of which the four interior are narrower, all fitting upon the germ.

Glands of the *Nectary* four, inverse-egg'd:

PIST. *Germ* roundish. *Style* thread-form. *Stigma* oblique, rather funnel-form, large.

PER. *Perianth* very large, inflated, roundish: the *mouth* intire, within which is the drupe.

*Drupe* dry, egg'd, eight-furrow'd, one-cell'd.

SEED a *Nut* globular, slightly depressed.

OBS. In *Syst. Veg.* p. 707. the character of the genus, differing something from that given, is thus shortly delineated.

Masc. CAL. three-parted. *Corol* three-petal'd.

Fem. CAL. lop'd, most intire. COR. 6-petal'd. *Drupe* hollow, the mouth open: with a moveable nucleus. R.

1050 PHYLANTHUS. \* *Sea-side Laurel.*

\* *Male flowers on the same plant with the female ones.*

CAL. *Perianth* one-leaved, six-parted, bell'd, colour'd: the *divisions* egg'd, spreading, obtuse, permanent.

COR. *Petals* none: unless you adopt the calyx.

STAM. *Filaments* three, shorter than the calyx, approximated at the base, distant at the top. *Anthers* twin.

\* *Females* placed as the males.

CAL. *Perianth* as in the males.

COR. *Petals* none.

*Nectary* a margin of twelve angles surrounding the germ.

PIST. *Germ* roundish, obtusely three-cornered. *Styles* three, spreading, two-cleft. *Stigmas* obtuse.

PER. *Capsule* roundish, three-furrow'd, three-cell'd: the cells two-valved.

SEEDS solitary, roundish.

# IV. F O U R M A L E S.

(*Tetrandria.*)

## 1051. CENTELLA. †

*Male Flowers.*

CAL. *Involucre* four-leaved: the *leaflets* egg'd, flat, acute, containing five sessile florets.

*Proper Perianth* none: but in each floret.

COR. *Petals* four, egg'd, concave.

STAM. *Filaments* four, the length of the corol. *Anthers* twin.

\* *Female Flowers* on the same or a separate plant.

CAL. *Involucre* two-leaved, one-flower'd with a sessile floret: the *leaflets* flat, egg'd, acute.

*Perianth* no other.

COR. *Petals* four, some what egg'd, sessile.

PIST. *Germ* beneath (above the involucre), compress'd. *Styles* two, recurvate. *Stigmas* simple.

PER. - - - compress'd, two-cell'd.

SEED.

1274. SER-

## 1274. SERPÍCULA.

*Male Flowers* solitary, peduncled.

CAL. *Perianth* very small, four-tooth'd, erect, acute, permanent.

COR. *Petals* four; oblong, obtuse, sessile.

STAM. *Filaments* four; very short. *Anthers* oblong, the length of the petals.

*Female Flowers* on the same plant.

CAL. *Perianth* above, four-parted, very small, permanent.

COR.

PIST. *Germ* beneath, egg'd, furrow'd. *Style*. *Stigma*.

PER. *Nut* cylindric, ploughed with eight cartilaginous wreathes; one-cell'd, deciduous.

SEED one, oblong.

1328. LITTORELLA. *Auth.* D. Bergio. *Act.*  
Suec. 1768.

\* *Male Flowers*.

CAL. *Perianth* four-leaved, erect.

COR. one-petal'd. *Tube* the length of the calyx. *Border* four-parted, erect, permanent.

STAM. *Filaments* four, thread-form, very long, inserted into the receptacle. *Anthers* hearted.

\* *Female Flowers* on the same plant.

COR. none.

COR. one-petal'd, conic, (the mouth obscurely three-cleft), permanent.

PIST. *Germ* oblong. *Style* thread-form, very long. *Stigma* acute.

PER. *Corol* cloathing.

SEED A *Nut* one-cell'd.

OBS. *The flower of Plantago, but the fruit is different. The corol of the female flower is some what four-cleft.* Syft. Veg. 708. R.

## 1275. CICCÁ.

*Male flowers scattered.*

CAL. *Perianth* four-leaved: the *leaflets* roundish, concave.

COR. none.

STAM. *Filaments* four, bristly. *Anthers* subglobular, the length of the calyx.

\* *Female flowers scattered on the same plant.*

CAL. as in the males.

COR. none.

PIST. *Germ* roundish. *Styles* four, two-parted, awl'd, the length of the germ. *Stigmas* acute, permanent.

PER. *Capsule* subglobular, four-grained, elastic.

SEEDS solitary.

OBS. *An affinity to Phylanthus.*

1052. BÉTULA. \* *Tournef.* 350. *Alnus Tournef.* 359. *Birch, Alder.*

\* *Male flowers digested in a cylindric ament.*

CAL. *Common Ament*, every where imbricated, loose, cylindric: consisting of *scales* three-flower'd, on each of which are two *scalelets* very minute, placed at the sides.

COR. *Compounded* of three equal florets, affixed to the disk of each calyx-scale.

*Proper* one-petal'd, four-parted, expanding, very small: the *divisions* egg-obtuse.

STAM. *Filaments* (of the corollet), four, very small. *Anthers* twin.

\* *Female flowers in aments of the same plant.*

CAL. *Common Ament* imbricated: the *scales* three, everywhere opposite, affixed to the rachis, two-flower'd, hearted with a point, from the dagger rather dissected with a sinus towards the top, concave, short.

COR. none manifest.

PIST. *proper Germ* egg'd, very small. *Styles* two, bristly, the length of the calyx-scale. *Stigmas* simple.

PER. none. *Ament* cherishing the seed under each scale of the two florets.

SEEDS solitary, egg'd.

*Betula T. The fruit digested in a cylindric ament.*

*Alnus T. The fruit digested in a roundish strobile.*

S f

1053. BUX-

1053. BUXUS. \* *Tournef.* 345. *Box.*

\* *Male* flowers prominent from the buds of the plant.

CAL. *Perianth* three-leaved: the *leaflets* roundish, obtuse, concave, expanding.

COR. *Petals* two, roundish, concave, very similar to the calyx, but larger.

STAM. *Filaments* four, awl'd, erect-expanding, rather larger than the calyx. *Anthers* erect, twin.

PIST. Rudiments of a *Germ* without style or stigma.

\* *Female* flowers in the same bud with the males.

CAL. *Perianth* four-leaved: the *leaflets* roundish, obtuse, concave, expanding.

COR. *Petals* three, roundish, concave, very similar to the calyx, larger than the calyx.

PIST. *Germ* roundish, obtusely three-corner'd, ending in *Styles* three, very short, permanent. *Stigmas* obtuse, hispid.

PER. *Capsule* roundish, three-flower'd, three-cell'd, elasticly gaping three ways.

SEEDS double, oblong, rounded on one side, flat on the other.

1054. URTICA. *Tournef.* 308. *Nettle.*

\* *Male* flowers.

CAL. *Perianth* four-leaved: the *leaflets* roundish, concave, obtuse.

COR. *Petals* none.

*Nectary* in the center of the flower, cup-form, intire, narrow below, very small.

STAM. *Filaments* four, awl'd, the length of the calyx, expanding, one within each calyx-leaf. *Anthers* two-cell'd.

\* *Female* flowers either on the same, or a separate plant.

CAL. *Perianth* two-valved, egg'd, concave, erect, permanent.

COR. none.

PIST. *Germ* egg'd. *Style* none. *Stigma* villous.

PER. none. *Calyx* converging.

SEED one, egg'd, obtuse-compress'd, glossy.

OBS. V. *alienata* (*alienated*) differs something from its kindred. *Syst.*

*Veg.* 709. R.

1055. MO-

1055. MÓRUS. \* *Tournef.* 362. *Mulberry.*

\* *Male flowers digested in aments.*

CAL. *Perianth* four-parted: the *leaflets* egg'd, concave.

COR. none.

STAM. *Filaments* four, awl'd, erect, longer than the calyx, one within each calyx-leaf. *Anthers* simple.

\* *Female flowers grow together on the same, or a different plant from the males.*

CAL. *Perianth* four-leaved: the *leaflets* roundish, obtuse, permanent, the two opposite exterior ones incumbent.

COR. none.

PIST. *Germ* hearted. *Styles* two, awl'd, long, reflected, rugged. *Stigmas* simple.

PER. none. *Calyx* very large, fleshy, made succulent by the *Berry*.

SEED one, egg'd, acute.

QBS. *Both Males and Females are in the class two-house.*

## V. FIVE MALES.

(*Pentandria.*)

1277. NEPHÉLUM.

\* *Male flowers in a spiked raceme.*

CAL. *Perianth* one-leaved, bell'd, five-tooth'd.

COR. none.

STAM. *Filaments* five, awl'd, longer than the calyx. *Anthers* obtuse, two-parted at the base.

\* *Female flowers in the same raceme.*

CAL. *Perianth* one-leaved, bell'd, four-tooth'd, (with the two opposite teeth more remote), withering.

COR. none.

PIST. *Germ*s two, roundish, murex'd, larger than the calyx. *Styles* two, thread-form, recurved, growing out between the *germs*.

*Stigmas* thickish, obtuse.

PER. *Drupe*s dry, two, egg'd, one-seeded, covered with awl'd bristles.

SEEDS solitary, roundish.

S f 2

1056. XAN-

1056. XANTHIUM. \* *Tournef.* 252. *Less Burdock.*

*Male flowers compound.*

CAL. *Perianth common* of many florets, many-leaved, imbricated with scales slender, the length of the florets, equal.

COR. *Compound* uniform, tubular, equal, digested in a hemisphere. *Proper* one-petal'd, tubular, funnel-form, erect, five-cleft.

STAM. *Filaments* (of the corollet) five in a tubular cylinder. *Anthers* erect, parallel, distinct.

REC. *Common* scarcely any, separating the florets with chaff.

\* *Female flowers* below the males, on the same plant, doubled.

CAL. *Involucre* two-flower'd, two-leaved: the *leaflets* opposite, three-lobed, (the lobes acute; with the middle more produced) fenced with hooked prickles, every way covering and growing to the germ: the *divisions* free.

COR. none.

PIST. *Germ* oval, hispid. *Styles* two pair, capillary. *Stigmas* simple.

PER. *Drupe* dry, egg-oblong, every where covered with hook'd prickles, two-cleft at the top.

SEED a *Nut* two-cell'd.

OBS. *The Fruit of Xanthium is with difficulty understood, before that of Ambrosia is known.*

1057. AMBRÓSIA. \* *Tournef.* 252.

\* *Male flowers* compound.

CAL. *common Perianth* one-leaved, flat, the length of the florets.

COR. *Compound* uniform, tubular, equal, digested in an hemisphere. *Proper* one-petal'd, tubular, funnel-form, erect, five-cleft.

STAM. *Filaments* (of the corollet) five, very small. *Anthers* erect, parallel, pointed.

PIST. *Style* thread-form, the length of the stamens. *Stigma* orbicular, membranous.

REC. *Common* scarcely any, naked.

\* *Female flowers* below the male ones, on the same plant, doubled.

CAL. *Perianth* one-leaved, pointed, intire, permanent, (girt on the belly with five teeth), one-flower'd.

COR. none.

PIST. *Germ* egg'd, in the bottom of the calyx. *Style* thread-form, the length of the calyx. *Stigmas* two, bristly, long, divaricated.

PER. *Nut* rather egg'd, one-cell'd, not gaping, crowned with the five pointed teeth of the calyx.

SEED one, roundish.

1058. PAR-

1058. PARTHÉNIUM. \* *Partheniastrum Niss. A.G.*  
 1711. *Dill. gen. 13. elth.*  
 225. *Hysterophorus Vaill.*  
*A.G. 1720. f. 4. 8. 34. 35.*  
 42. *False Feverfew.*

CAL. *Common Perianth* most simple, five-leaved, expanding: the leaflets roundish, flat, equal.

COR. *Compound convex: Corollets hermaphrodite* many in the disk. *Female ones* scarcely surpassing the hermaphrodite, five in the ray.

*Proper* in the hermaphrodites one-petal'd, tubular, erect, with a five-cleft mouth, the length of the calyx.

In the *females* one-petal'd, tubular, tongued, oblique, obtuse, roundish, the length of the hermaphrodite.

STAM. in the hermaphrodites *Filaments* five, capillary, the length of the corollet. *Anthers* as many, thickish, scarcely cohering.

PIST. of the hermaphrodites: *Germ* beneath the proper receptacle, scarcely discernible. *Style* capillary, rather shorter than the stamens. *Stigmas* none.

Of the *females* *Germ* beneath, top-hearted, compressed, large. *Style* thread-form, the length of the corollet. *Stigmas* two, thread-form, the length of the style, somewhat expanding.

PER. none. *Calyx* unchanged.

SEEDS in the *hermaphrodites* abortive.

In the *females* top-hearted, compressed, naked.

REC. nearly none, flat. *Chaffs* separate the florets, so that each female has two hermaphrodites behind it.

1059. IVA. \* *Tarchonanthus Vaill. act. 1719. f. 16.*  
 17. *False Bark-tree.*

CAL. *Common* roundish, (with *leaflets* rather fived, somewhat egg'd, obtuse, subequal, permanent), containing numerous florets.

COR. *Compound* convex: *Corollets* male numerous in the disk.

*Feminine* five in the circumference.

*Proper* in the males one-petal'd, funnel-form, five-tooth'd, the length of the calyx.

In the *females* none.

STAM. in the male *Filaments* five, bristly, the length of the corollet.

*Anthers* erect, approximated.

PIST. in the females *Germ* oblong, the length of the calyx. *Styles* two, capillary, long. *Stigmas* acute.

PER. none. *Calyx* unchanged.

SEEDS solitary, naked, the length of the calyx, thicker upward, obtuse.

REC. divided by linear interior *chaff*.

1329. CLIBADIUM. *Auth. Allamand.*

CAL. *Common* imbricated: the *scales* egg'd, acute.

COR. *Compound*: the *Corollets* tubular, funnel-form: the border five-cleft.

*Corollets of the disk* many, pedicel'd, hermaphrodite.

*Of the Ray* three or four, sessile, feminine.

STAM. in the hermaphrodites: *Filaments* five, capillary, very short.

*Anthers* oblong, approximated.

PIST. in the hermaphrodites: *Germ* very small, above. *Style* thread-form. *Stigma* simple.

In the *females*: *Germ* roundish, beneath. *Style* thread-form.

*Stigma* two-parted.

PER. *common* none. *Calyx* bellied, coloured.

*Proper* in the *hermaphrodites* none.

In the *females* *Drupe* roundish, succulent, navel'd.

SEED one, hearted, compressed.

1060. AMARÁNTHUS. \* *Amaranthi species*  
*Tournef.* 118. *b. i. k. l. Amaranth, Flower-gentle.*

\* *Male flowers on the same plant with the female.*

CAL. *Perianth* five-leaved or three-leaved, erect, coloured, permanent: the *leaflets* lanced, acute.

COR. none, (unless you adopt the calyx.)

STAM. *Filaments* five or three, capillary, erect-expanded, the length of the calyx. *Anthers* oblong, versatile.

*Female flowers on the same raceme with the male.*

CAL. *Perianth* intirely as in the male.

COR. none.

PIST. *Germ* egg'd. *Styles* three, short, awl'd. *Stigmas* simple, permanent.

PER. *Capsule* egg'd, subcompress'd, as the calyx on which it fits, coloured, and of the same size, three-beaked, one-cell'd, cut round.

SEED one, globular, compressed, large.

1276. LEËA. *Auth. Dan. van. Royeno.*

\* *Male flowers.*

CAL. *Perianth* one-leaved, bellied, five-cleft.

COR. one-petal'd. *Tube* the length of the calyx. *Border* five-cleft, equal: the divisions bag'd.

*Nectary* growing to the base of the interior corol, shorter by half than the corol, cylindric, five-cleft: the lobes two-cleft.

STAM. *Filaments* five, shorter than the nectary. *Anthers* oblong, incumbent.

PIST. *Germ* none. *Style* simple. *Stigma* obscure.

\* *Female flowers oftner on the same plant.*

CAL. as in the male.

COR. as in the male.

*Nectary* as in the male, but double: the interior one less.

PIST. *Germ* above, egg'd. *Style* simple. *Stigma* lacerated.

PER. - - globular, six-cell'd.

SEEDS solitary.

## VI. SIX MALES.

(Hexandria.)

1062. ZIZANIA. † Gronov. Elymus Mich. 7.

\* Male flowers below the female.

CAL. none.

COR. Glume two-valved: the leaflets lanced, awnless, equal, embracing.

STAM. Filaments six, very small. Anthers oblong, simple, the length of the corol.

\* Female flowers in the superior part of the panicle.

CAL. none.

COR. Glume two-valved, closed, gaping only above the germ: the exterior valvelet larger, hollow, long, straight, embracing on both sides the interior one, ending in a long awn, the interior valvelet less, lanced, flat.

PIST. Germ oblong. Styles two, very small. Stigmas feathery, eminent.

PER. none. Glume closed, plaited, permanent.

SEED one, oblong, equal, shining, naked.

OBS. Syst. Veg. 714. pronounces the Style to be two-parted. R.

1063. PHARUS. †

\* Male flowers peduncled.

CAL. Glume two-valved, acute, very small, one-flower'd.

COR. Glume two-valved, longer, acute, one valve narrower.

STAM. Filaments six, short. Anthers oblong.

\* Female flowers sessile on the same panicle.

CAL. Glume two-valved, the length of the corol, one-flower'd.

COR. Glume two-valved: the exterior valvelet oval-oblong, more rigid; the interior one linear.

PIST. Germ linear. Style simple. Stigmas three, acute.

PER. Glume of the corol involving the seed.

SEED oblong,

VII. SE-

# VII. SEVEN MALES. (Heptandria.)

1004. GUETTARDA. † *Halesia Brown.*

CAL. *Perianth* one-leaved, cylindric, very short, most intire, (with the exterior margin more prominent), deciduous.

COR. one-petal'd, funnel-form. *Tube* cylindric, long. *Border* seven-cleft: the lobes rounded, shorter than the tube.

STAM. *Filaments* seven, in the throat of the corol. *Anthers* linear.

PIST. *Style* thread-form.

\* *Female flowers* on the same plant.

CAL. as in the Male.

COR. as in the Male.

PIST. *Germ* roundish. *Style* thread-form, longer than the stamens. *Stigma* rather egg'd.

PER. *Drupe* dry, roundish, depress'd, brawny.

SEED one.

# VIII. MANY MALES. (Polyandria.)

1065. CERATOPHYLLUM. \* (*Horn-leaf.*) *Hydroceratophyllum* (*Water-horn-leaf.*) *Vaill. A. G. 1719. t. 2. f. 2. Dichotophyllum Dill. gen. 3. (Fork-leaf.) Horn-leaf Pondweed.*

\* *Male flowers.*

CAL. *Perianth* many-parted: the divisions awl'd, equal.

COR. none.

STAM. *Filaments* twice as many as the segments of the calyx (sixteen to twenty) scarcely conspicuous. *Anthers* oblong, erect, longer than the calyx.

\* *Female Flowers* on the same plant with the male.

CAL. *Perianth* many-parted: the divisions awl'd, equal.

COR. none.

PIST. *Germ* egg'd, compress'd *Style* none. *Stigma* obtuse, oblique.

PER. none.

SEED *Nut* egg'd, one-cell'd, pointed.

1066. MY-

1066. MYRIOPHYLLUM. \* *Vaill. A. G. 1719.*  
*t. 2. f. 3. Pentapterophyllum Dill. gen. 7.*  
*(Five-wing-leaf.) Water Milfoil.*

\* *Male flowers.*

CAL. *Perianth* four-leaved, the *leaflets* oblong, erect: of these the outmost is larger, the inmost less.

COR. none.

STAM. *Filaments* eight, capillary, longer than the calyx, flaccid.  
*Anthers* oblong.

\* *Female flowers* under the males.

CAL. *Perianth* as in the male.

COR. none.

PIST. *Germes* four, oblong. *Styles* none. *Stigmas* pubescent.

PER. none.

SEEDS four, oblong, naked.

OBS. *M. verticillatum (verticil'd)* has often hermaphrodite flowers.

1067. SAGITTARIA. \* *Sagitta Dill. gen. 4. Vaill.*  
*A. G. 1719. Arrow-head.*

\* *Male flowers* many.

CAL. *Perianth* three-leaved: the *leaflets* egg'd, concave, permanent.

COR. *Petals* three, roundish, obtuse, flat, expanding, thrice as large as the calyx.

STAM. *Filaments* numerous (often twenty-four), awl'd, collected into a head. *Anthers* erect, the length of the calyx.

\* *Female flowers* fewer, below the males.

CAL. *Perianth* as in the Male.

COR. *Petals* three as in the Male.

PIST. *Germes* numerous, compressed, collected in an head, gibbous without, ending in very short *Styles*. *Stigmas* acute, permanent.

PER. none. *Receptacle* globular, collecting the seeds into a globe.

SEEDS numerous, oblong, compress'd, girt longitudinally with a margin membranous, broad, gibbous on one side, pointed at both ends.

1156. *BEGÓNIA*. *Tournef.* 442.\* *Male flower.*

CAL. none.

COR. four-petal'd, expanding, regular, the two opposite *Petals* inverse-heated, the other two hearted.STAM. *Filaments* numerous, shorter than the corol, capillary. *Anthers* roundish.

PIST. falling off.

\* *Female flower.*CAL. none, whose office the *Germ* performs.

COR. four-petal'd, as the male.

PIST. *Germ* beneath, triangular with membranous angles, three-piked, erect. *Styles* three, two-cleft, the length of the *stamens*. *Stigmas* globular.PER. triangular, three-cell'd: with three longitudinal *wings*.

SEEDS numerous, small.

OBS. Concerning the number of *stamens*, the species of *pericarp* (*H. M.* mentions berries) and the pistil of the male flower we know nothing certain.1098. *THELÍGONUM*. \* *Cynocrambe* *Tournef.*485. (*Dog's Cabbage*.)*Dog's Mercury.*\* *Male flower.*CAL. *Perianth* one-leaved, top-shape, half-twocleft: the *divisions* revolute.

COR. none.

STAM. *Filaments* numerous, (twelve and upwards), erect, the length of the corol. *Anthers* simple.\* *Female Flower* on the same plant.CAL. *Perianth* one-leaved, very small, erect, two-cleft, permanent to the side of the germ.

COR. none.

PIST. *Germ* globular. *Style* thread-form, long. *Stigma* simple.PER. *Capsule* leathery, globular, one-cell'd.

SEED one, globular, with a callous appendage.

1069. PO-

1069. POTERIUM. \* *Pimpinella Tournef.* 68.  
*Burnet.*

*Male Flowers* placed in a spike.

CAL. *Perianth* three-leaved: the *leaflets* egg'd, colour'd, falling off.

COR. four-parted. *Petals* egg'd, concave, expanding, coalesced at the base, permanent.

STAM. *Filament* many (thirty to forty), capillary, very long, flaccid. *Anthers* roundish, twin.

\* *Female flowers* on the same spike above the males.

CAL. *Perianth* as in the male.

COR. one-petal'd, wheel'd. *Tube* short, roundish, converging in the mouth. *Border* five-parted: the *divisions* egg'd, flat, reflected, permanent.

PIST. *Germes* two, egg-oblong, within the tube of the corol. *Styles* two, capillary, colour'd, flaccid, the length of the corol. *Stigmas* pencil-form, coloured.

PER. *Berry* is formed from the indurated, thicken'd closed tube of the corol.

SEEDS two.

OBS. *P. spinosum* (thorny) has a fleshy, globular *Berry*, with oblong, columnar seeds.

*P. Sanguisorba* has a juiceless angular *Berry*, with seeds four-corner'd, pointed at both ends. Two weak *Pistils* inserted into the male flower.

The Calyx is two-three-or four-leaved. R.

1070. QUÉRCUS. \* *Tournef.* 394. *Ilex Tournef.*  
 350. *Suber Tournef.* Oak.  
*Evergreen Oak. Cork-tree.*

*Male Flowers* digested in a loose ament.

CAL. *Perianth* one-leaved, five-cleft or four-cleft: the *divisions* acute, often two-cleft.

COR. none.

STAM. *Filaments* many (5. 8. 10.) very short. *Anthers* large, twin.

\* *Female flowers* sessile in the bud, on the same plant with the male ones.

CAL. *Perianth* one-leaved, leathery, hemispheric, rugged, most intire, scarcely manifest in the flower.

COR. none.

PIST. *Germ* egg'd, very small. *Style* simple, two-five-cleft, longer than the calyx, *Stigmas* simple, permanent.

PER. none.

SEED *Nut* oval, the crust leathery, one-valved, abraded at the base, affixed to a short calyx, columnar, smooth.

OBS. *Quercus T.* has *sinuous leaves*.

*Ilex T.* has *tooth-saw'd leaves*,

*Suber T.* is *cloathed with a white spungy bark*.

1071. JUGLANS. \* *Nux Tournef.* 346. *Boerb.* II.  
p. 175. *Walnut.*

\* *Male flowers* digested in an oblong ament.

CAL. *Common Ament* every way imbricate-wise scatter'd, cylindric, consisting of scales one-flowered, one affixed to each corol at its exterior center, turned outward.

COR. six-parted, elliptic, equal, flat: the *divisions* erect-concave, pedicel'd, inserted into the interior center of the corol and to the rachis.

STAM. *Filaments* many (eighteen) very short. *Anthers* erect, pointed, the length of the calyx.

\* *Female flowers* without an ament, associated by two or three, sessile, on the same plant.

CAL. *Perianth* four-cleft, erect, very short, crowning the germ, evanescent.

COR. four-parted, acute, erect, rather larger than the calyx.

PIST. *Germ* oval, large, beneath. *Styles* two, very short. *Stigmas* very large, clubed, reflected, lacerated upward.

PER. *Drupe* dry, oval, large, one-cell'd.

SEED A *Nut* very large, roundish, netted with furrows, half-four-cell'd: the *Nucleus* four-lobed, variously furrow'd.

1072. FAGUS. \* *Tournef.* 351. *Castanea Tournef.*  
352. *Beech, Chestnut.*

\* *Male flowers* affixed to the common amentaceous receptacle.

CAL. *Perianth* one-leaved, bell'd, five-cleft.

COR. none.

STAM. *Filaments* many (about twelve), the length of the calyx, bristly. *Anthers* oblong.

\* *Female flowers* in the bud of the same plant.

CAL. *Perianth* one-leaved, four-tooth'd, erect, acute.

COR. none.

PIST. *Germ* covered by the calyx. *Styles* three, awl'd. *Stigmas* simple, reflected.

PER. *Capsule* roundish, (which was the calyx) very large, beset with soft thorns, one-cell'd, four-valved.

SEEDS *Nuts* two, egg'd, three-sided, three-valved, pointed.

OBS. Of *Fagus* T. *The male flowers are digested in a globe.*

Of *Castanea* T. *The male flowers are disposed in a cylinder.*

1073. CAR-

1073. CARPINUS. \* *Tournef.* 348. *Ostrya Mich.*

104. *Horn-bean.*

\* *Male* flowers digested in a cylindric ament

CAL. *Common Ament* every where loosely imbricated: consisting of *scales*, egg'd, concave, acute, fringed, one-flower'd.

COR. none.

STAM. *Filaments* oftner ten, very small. *Anthers* twin, compress'd, villous at the top, two-valved.

\* *Female* flowers digested in an oblong ament, on the same plant.

CAL. *Common Ament* loosely imbricated, consisting of *scales* lanced, villous, reflected at the top, one-flower'd.

COR. calyx-form, one-leaved, six-cleft: two *divisions* larger.

PIST. *Germes* two, very short, two *styles* on each, capillary, coloured, long. *Stigmas* simple.

PER. none. *Ament* becoming very large, concealing the seed at the base of each scale.

SEED A *Nut* egg'd, angular.

OBS. *Carpinus T.* has the seed within the base of the concave calyx-scale.

*Ostrya M.* has the seed within the inflated calyx-scale.

1074. CO-

1074. CORYLUS. \* *Tournef.* 347. *Malp.* 220. 221.  
224. *Filbert, Nut-tree, Hazle.*

\* *Male flowers digested in a long ament.*

CAL. *Common Ament* every where imbricated, cylindric, consisting of *scales* one-flower'd, narrower at the base, broader at the top, more obtuse, inflected, three-cleft: the *middle division* equal in length with the rest, but twice as broad, and covering the rest.

COR. none.

STAM. *Filaments* eight, very short, annexed to the interior side of the calyx-scale. *Anthers* egg-oblong, shorter than the calyx, erect.

\* *Female flowers* remote from the male ones, on the same plant, feffile, included in the bud.

CAL. *Perianth* two-leaved, leathery, lacerated on the margin, erect, the length of the fruit, scarcely visible under the floescence on account of its minuteness.

COR. none.

PIST. *Germ* roundish, very small. *Styles* two, bristly, much longer than the calyx, colour'd. *Stigmas* simple.

PER. none.

SEED A *Nut* egg'd, abraded at the base, rather compress'd at the top, rather pointed.

OBS. *It has the greatest affinity to Carpinus.*

1075. PLATANUS. \* *Tournef.* 363. *Plane-tree.*

\* *Female flowers* compound, digested in a globular *Ament*.

CAL. some very small divisions.

COR. scarcely manifest.

STAM. *Filaments* oblong, thicker upwards, colour'd. *Anthers* four-corner'd, growing round the filament on the inferior part.

\* *Female flowers* digested in a globe, numerous, on the same tree.

CAL. *Scales* many, very small.

COR. *Petals* many, concave, oblong, club'd.

PIST. *Germ*s many, awl'd, ending in awl'd *Styles*, the *Stigma* recurved.

PER. none. *Fruit* many digested in a globe.

SEED roundish, sitting on the bristly style, and terminated by an awl'd style, with a capillary *pappus* adhering to the base of the seed.

OBS. *The parts of the flowers should be examined with a more attentive eye.*

1076. LI-

1076. LIQUIDÁMBAR. † *Clayt. Mich.* 12.  
*Sweet Gum.*\* *Male Flowers* numerous in an ament conic, long, loose.CAL. *Common Involucre* four-leaved; the *leaflets* egg'd, concave, falling off; the alternate ones shorter.

COR. none.

STAM. *Filaments* numerous, very short, in a body convex on one side, flat on the other. *Anthers* erect, twin, four-furrow'd, two-cell'd.\* *Female flowers* at the base of the male spike, digested in a globe.CAL. *Involucre* as in the male, but double.*Proper Perianths* bell'd, angled, many, conjoined, warty.

COR. none.

PIST. *Germ* oblong, adjoined to the perianth. *Styles* two, awl'd. *Stigmas* growing to one side, the length of the style, recurved, pubescent.PER. *Capsules* as many, egg'd, one-cell'd, two-valved at the top, acute, collected in a globe, woody.

SEEDS many, oblong, glossy, with a membrane at the point mixed with numerous chaffy corpuscles.

## IX. ONE BROTHERHOOD.

*(Monadelphía.)*1077. PINUS. \* *Tournef.* 353. *Abies Tournef.* 353.  
*Larix Tournef.* 353. *Pine, Fir, Larch.*\* *Male flowers* disposed in racemes.CAL. *Scales* of the bud gaping, nor other calyx.

COR. none.

STAM. *Filament* many, conjoin'd below in a column, erect, divided at the top. *Anthers* erect, naked.\* *Female Flowers* on the same plant.CAL. *Common Strobile* somewhat egg'd, consisting of*Scales* two-flower'd, oblong, imbricated, permanent, rigid.

COR. none.

PIST. *Germ* very small. *Style* awl'd. *Stigma* simple.PER. none. The *Calyx-Strobile*, before closed, now converging.SEED A *Nut* augmented with a membranous wing, larger than the Seed, less than the scale of the Strobile, oblong, straight on one side, gibbous on the other.OBS. The *Calyx* of the male flower is four-leaved. *Syst. Veg.* p. 719. R.

T t

1078. THU-

1078. THUÏA. \* *Tournef.* 358. *Arbor Vitæ. Tree of Life.*\* *Male flower.*CAL. *Ament* egg'd, consisting of a common rachis, to which the opposed flowers are set in triple opposition. *Each flower* has for its base*A scale* somewhat egg'd, concave, obtuse.

COR. none.

STAM. *Filaments* (in each floret) four, scarcely manifest. *Anthers* as many, adjoined to the base of the calyx-scale.*Female flower* on the same plant.CAL. *Common Strobile* somewhat egg'd, compounded of opposite *florets*: consisting of *scales* two-flower'd, egg'd, convex, converging longitudinally.

COR. none.

PIST. *Germ* very small. *Style* awl'd, *Stigma* simple.PER. *Strobile* egg-oblong, obtuse, gaping longitudinally: the *scales* oblong, nearly equal, convex without, obtuse.

SEEDS oblong, girt longitudinally with a membranous end-nick'd wing.

OBS. *It is very nearly allied to Cupressus.*1079. CUPRÉSSUS. \* *Tournef.* 358. *Cypress.*\* *Male flowers* collected in an egg'd ament.CAL. *Common Ament* egg'd, composed of scattered flowers; consisting of *scales* one-flower'd, roundish, pointed before, targetted, opposite, about twenty.

COR. none.

STAM. *Filaments* none: of which the calyx-scalelet performs the office, to which four *Anthers* are adjoined below.\* *Female flowers* collected into a roundish cone, on the same plant.CAL. *Common Strobile* roundish, composed of from eight to ten *florets*, consisting of*Scales* one-flower'd, opposite, egg'd, convex under, gaping.

COR. none.

PIST. *Germ* scarcely conspicuous with numerous points within each calyx-scale, lop'd, concave at the top. Are they styles?PER. none. *Strobile* subglobular, closed, gaping with *scales* orbicular, angular, targetted, under which isSEED A *Nut* angular, pointed, small.

1080. PLUKENÉTIA. \* *Plum.* 13. *per D. Ay-*  
*men.*

\* *Male flower.*

CAL. none; unless you adopt the corol.

COR. *Petals* four, egg'd, expanding.

STAM. *Filaments* eight, very short, coalesced. *Anthers* erect, simple.

Four glands of the *Nectary* at the base of the stamens, furnished with a beard longer than the stamens.

\* *Female flower* on the same plant with the male ones.

CAL. none.

COR. as in the male flowers.

PIST. *Germ* quadrangular. *Style* thread-form, of all the longest, declining. *Stigma* targetted, four-cleft: the *divisions* obtuse, flat, *each* marked in the middle with a dot.

PER. *Capsule* depressed, quadrangular, keel'd at the *angles*, four-cell'd, the *cells* two-valved.

SEEDS solitary, roundish, compress'd, rather pointed at one end.

1081. DALECHAMPIA. Plum. 38. Jacq. amer.

252.

*The exterior Common Involucre* lefs: the *leaflets* four, lanced, expanding.

*The interior one* very large: the *leaflets* two, hearted, three-cleft, converging.

In the *Male Florets* the *umbel* is peduncled, fimple, ten-flower'd, fhorter than the interior involucre.

CAL. *Involucel* two-leaved, erect, retufe: the *leaflets* rather three-lobed.

*Scales* numerous, inverfe-egg'd, apprefs'd imbricate-wife to the exterior fide of the involucl, and the length of it.

*Proper Perianth* five-leaved, pedicel'd: (the *leaflets* egg'd, acute), deciduous.

COR. none.

STAM. *Filaments* many, conjoined in a column longer than the calyx. *Anthers* roundifh.

\* In the *females* there are three florets within the fame common *Involucre*, approximated to the inferior fide.

CAL. *Involucel* three-leaved: the *leaflets* end-nick'd, fmall.

*Proper Perianth* beneath: the *leaflets* XI, linear, tooth'd, acute, converging, permanent.

COR. none.

PIST. *Germ* roundifh, fhorter than the perianth. *Style* thread-form, afcending, the length of the males. *Stigma* fomewhat headed, perforated.

PER. *Capsule* roundifh, three-grained, three-cell'd: the cells two-valved.

SEEDS folitary, fubglobular.

1082. ACÁLYPHA. \* *Roy. Ricinocarpus (Tick-fruit.) Boerb. Burm.*

\* *Male Flowers* crowded above the female ones.

CAL. *Perianth* three or four-leaved: the *leaflets* roundish, concave, equal.

COR. none.

STAM. *Filaments* eight to sixteen, short, crowded, connected at the base. *Anthers* roundish.

\* *Female flowers* fewer, placed beneath, received into a large divided involucre.

CAL. *Perianth* three-leaved: the *leaflets* somewhat egg'd, concave, converging, small, permanent.

COR. none.

PIST. *Germ* roundish. *Styles* three, branchy, (oftner three-parted), long. *Stigmas* simple.

PER. *Capsule* roundish, three-furrow'd, three-cell'd, the *valvelets* gaping two ways.

SEEDS solitary, roundish, very large.

1083. CRÓTON. \* *Ricinoides Tournef. 423. Tallow-tree, False Ricinus.*

\* *Male flowers* less than the female.

CAL. *Perianth* cylindric, five-tooth'd.

COR. *Petals* in some five, scarcely larger than the calyx, oblong, obtuse.

*Nectary* five glands, affixed to the receptacle, small.

STAM. *Filaments* ten or fifteen, awl'd, connected at the base, the length of the flower. *Anthers* roundish, twin.

\* *Female flowers* remote from the males, on the same plant.

CAL. *Perianth* many-leaved: the *leaflets* egg-oblong, erect.

COR. *Petals* as in the males, (in some scarcely manifest).

PIST. *Germ* roundish. *Styles* three, reflex-expanding, the length of the flower, half-two-cleft. *Stigmas* reflected, two-cleft.

PER. *Capsule* roundish, three-lobed on the sides, three-cell'd, with each cell two-valved, the size of the calyx.

SEEDS solitary, egg'd, large.

OBS. *Some species are petal-like, others petalless.*

Of *C. tinctorium* (dyers) the *Calyx* is five-leaved. *Petals* five, lanced. *Stamens* eight, one-brotherhood. R.

*C. lucidum* (lucid): of the male the *calyx* is ten-leaved; *Cor.* none. *Stamens* twelve.

Of the female the *Calyx* is five-leaved: *Germ* shaggy: *Styles* three, six-parted. R.

279. CUPÁNIA. *Plum.* 19.\* *Male flowers.*CAL. *Perianth* three-leaved, flat, permanent: the *leaflets* egg'd, acute.COR. *Petals* five, orbicular, less than the calyx, expanding.STAM. *Filaments* five, coalesced, awl'd, the length of the corol. *Anthers* roundish.\* *Female flowers.*

CAL. as in the males.

COR. *Petals* three.PIST. *Germ* egg'd. *Style* very small, three-cleft. *Stigmas* obtuse.PER. *Capsule* leathery, top-egg'd, three-cell'd, three-valved.SEEDS six, roundish: the *Aril* bell'd, notch'd, embracing the seed like a calyx.OBS. *I have not seen the flowers: from the drawings of Plumier, I judge them to be of the class one house; I know not the stamens.*1084. JÁTROPHA. \* *Manihot Tournef.* 438.*Dill. elth.* 173. *Jussievia Houst.**A. A. Cassava.*\* *Male flowers.*CAL. *Perianth* scarcely manifest.COR. one-petal'd, funnel-form. *Tube* very short. *Border* five-parted: the *divisions* roundish, expanding, convex, concave beneath.STAM. *Filaments* ten, awl'd, approximated in the middle, the five alternate ones shorter, erect, shorter than the corol. *Anthers* roundish, versatile.

PIST. a feeble rudiment is conceal'd in the bottom of the flower.

\* *Female flowers* on the same umbel with the male ones.

CAL. none.

COR. five-petal'd, rose-like.

PIST. *Germ* roundish, three-furrow'd. *Styles* three-two-cleft. *Stigmas* simple.PER. *Capsule* roundish, three-grained, three-cell'd: the *cells* two-valved.

SEEDS solitary, roundish.

OBS. J. *Urens* (*stinging*) has nine erect stamens, of which the three interior are longer than the rest, to which (three) as many bristles correspond, each inserted into each filament near the base. A few species have in the male flowers a five-cleft Calyx and a five-petal'd Corol.To J. *Urens* (*stinging*) there are now ascribed ten stamens. *Syst. Veg.* 723. R.

1085. RÍ-

1085. RÍCINUS. \* *Tournef.* 307. *Palma Christi.*  
(*Tick*) *Castor.*

\* *Male Flowers.*

CAL. *Perianth* one-leaved, five-parted: the *divisions* egg'd, concave.  
COR. none.

STAM. *Filaments* very numerous, thread-form, branch-wise coalesced below in various bodies. *Anthems* twin, roundish.

\* *Female Flowers* on the same plant with the males.

CAL. *Perianth* one-leaved, three-parted: (the *divisions* egg'd, concave), deciduous.

COR. none.

PIST. *Germ* egg'd, covered with awl'd corpuscles. *Styles* three, two-parted, erect-expanding, hispid. *Stigmas* simple.

PER. *Capsule* roundish, three-furrow'd, every where prickly, three-cell'd, three-valved.

SEEDS solitary, somewhat egg'd.

1086. STERCÚLIA. †

\* *Male flowers.*

CAL. *Perianth* five-parted, one-leaved, very large, leathery, flat: the *divisions* lanced.

COR. none.

STAM. *Filaments* fifteen (about), very short, coalesced below into a column, shorter by half than the calyx. *Anthems* egg'd.

\* *Female flowers* on the same plant.

CAL. as in the males.

COR. none.

PIST. *Germ* globular, shaggy, girt with a coronet from rudiments of the filaments, sitting on a column shorter than the calyx. *Style* thread-form, the length of the germ.

PER. orbicular, depress'd, oftner five-cell'd: the cells bursting, boat-form.

SEEDS *Nucleuses* oval, many, sitting on the margin of the cells.

1088. HIP-

1088. HIPPOMANE. † *Loefling*. *Mancinella Plum.*  
30. *Manchineel*.\* *Male flowers* in a terminal ament.CAL. *Perianth* one-leaved, two-cleft, top-shape, obtuse, very small.  
COR. none.STAM. *Filament* one, the length of the calyx. *Anthers* two, two-parted.\* *Female flower* solitary, terminal, on the same plant.CAL. *Perianth* three-cleft, small, falling off.

COR. none.

PIST. *Germ* egg'd, large. *Style* none. *Stigma* three-parted, two-cleft, acute, reflected.PER. *Drupe* globular, very large, one-cell'd, with permanent stigmas, or a three-grained *capsule*.SEED A *Nut* woody, irregular, excavated with pits and warts, or very smooth.OBS. Of *H. Mancinella* the fruit, as in the character.*The rest of the species has three-grain'd fruit.*1279. STILLINGIA. \* *Autore Alex. Garden.*\* *Male Flowers* digested in an amentaceous spike.CAL. *Perianth* many flower'd, (7-flower'd), leathery, hemispheric, pitcher'd, most intire.COR. one-petal'd, pipe-funnel-form, gradually enlarging, much narrower than the calyx: the *mouth* undivided, fringe-form.STAM. *Filaments* two, thread-form, twice as long as the corol, divaricated at the top, slightly coalesced at the base. *Anthers* kidney-form, twin.\* *Female flowers* few, at the base of the same spike.CAL. *Perianth* one-flower'd, the rest as in the males.

COR. above.

PIST. *Germ* roundish, between the calyx and the corol. *Style* thread-form. *Stigmas* three, distinct, recurved.PER. *Capsule* three-grained, rather top-shape, somewhat three-corner'd, three-cell'd, girt at the base with the enlarged calyx.

SEEDS solitary, oblong, nearly three-corner'd, cut off inward by the transverse hile.

## 1278. GNÉ-

## 1278. GNÉTUM.

*Ament* of *Verticils* remote, callous, thicken'd, supported under by a partial *Calycle*.

A partial *Calycle* targetted, orbicular, flat, most intire, contains the sessile *florets*: the *males* beneath, the *females* above on the same verticil.

\* *Male* flowers.

CAL. *Scale* egg'd, minute, colour'd.

COR. none.

STAM. *Filament* one, thread-form, longer than the scale. *Anthers* double, connected.

\* *Female* flowers.

CAL. *scale* lacerated, rude.

COR. none.

PIST. *Germ* egg'd, immersed in the receptacle of the verticil, the length of the *stamens*. *Style* conic, short. *Stigma* three-cleft, acute.

PER. *Drupe* egg'd, one-cell'd.

SEED A *Nut* oblong, striated.

OBS. *Rumphius* calls this two-house; my plant was one-house; I have also seen an *Ament* meerly masculine, sitting on a proper peduncle near the female *floret*.

1087. HÚRA. \* *Sand-box tree*.

\* *Male* flowers.

CAL. *Ament* from the divarication of the branches, oblong, bowing, covered with expanding, sessile *florets*; the *scales* oblong. *Perianth* within each scale of the ament, cylindric, two-leaved, lop'd, very short.

COR. none.

STAM. *Filaments* cylindric, rather longer than the calyx, targetted at the top, rigid, verticil'd twice or thrice with tubercles under the top. *Anthers* two, immersed in each tubercle, oval, two-cleft. \* *Female* flower on the same plant.

CAL. *Perianth* one-leaved, cylindric, furrow'd, lop'd, most intire, closely surrounding the germ.

COR. none.

PIST. *Germ* roundish within the calyx. *Style* cylindric, long. *Stigma* large, funnel-form, flat-convex, coloured, twelve-cleft, obtuse, equal.

PER. woody, orbicular, or globe-depressed, brawny, with twelve furrows, twelve-cell'd: the *cells* bursting, moon'd, with an elastic dagger at the top.

SEEDS solitary, compress'd, suborbicular, large.

X. CON-

# CONFEDERATE MALES.

(*Syngénésia.*)

1089. TRICHOSÁNTHES. \* *Anguina Mich.* 9.  
(*Hair-flower.*) *Serpent*  
*Cucumber.*

\* *Male Flowers.*

CAL. *Perianth* one-leaved, club'd, very long, smooth: the *mouth* five-tooth'd, reflected, small.

COR. five-parted, adjoined to the calyx, flat, expanding: the *divisions* egg-lanced, fringed: the *hairs* very long, branchy.

STAM. *Filaments* three, very short, at the top of the calyx. *Anthers* a cylindric, erect body every where covered with a dust-bearing line creeping upward and downward.

PIST. *Styles* three, very small, adjoined to the tube of the calyx.

\* *Female flowers on the same plant with the male.*

CAL. *Perianth* as in the male, above, deciduous.

COR. as in the male.

PIST. *Germ* oblong, slender, beneath. *Style* thread-form, the length of the calyx. *Stigmas* three, oblong, awl'd, gaping.

PER. *Pome* oblong, three-cell'd, the *cells* remote.

SEEDS many, compress'd, obtuse, coated.

1090. MO-

1090. MOMÓRDICA. \* *Tournef.* 29. 30. *Luffa*  
*Tournef. A. G.* 1709. *Dill.*  
*gen.* 11. *eltb.* 163. *Elate-*  
*rium Boerb. Male Balsam*  
*Apple. Spirting Cucumber.*

\* *Male Flowers.*

CAL. *Perianth* one-leaved, concave, five-cleft: the *divisions* lanced, expanded.

COR. five-parted, adjoined to the calyx, much expanded, large, veined, wrinkled.

STAM. *Filaments* three, awl'd, short. *Anthers* on two filaments, two-cleft; ear'd on both sides, on the third simple, ear'd on one side only, consisting of a compress'd body, and a line dust-bearing, once reflected.

\* *Female flowers* on the same plant with the male ones.

CAL. *Perianth* as in the male, above, deciduous.

COR. as in the male.

STAM. none. *Filaments* three, very short, without anthers.

PIST. *Germ* beneath, large. *Style* one, round, three-cleft, columnar. *Stigmas* three, gibbous, oblong, looking outward.

PER. *Pome* dry, oblong, bursting with elastic force, three-cell'd: the *cells* membranous, soft, distant.

SEEDS many, compress'd.

1091. CU-

1091. CUCURBITA. \* *Tournef.* 36. Pepo *Tournef.*  
33. Melopepo *Tournef.* 34.  
*Gourd, Pumpkin, Calabash.*

\* *Male flowers.*

CAL. *Perianth* one-leaved, bell'd, with a margin terminated by five awl'd teeth.

COR. five ways divided, adjoined to the calyx, bell'd: the *divisions* vein-wrinkled.

*Nectary* a gland in the center of the flower, concave, triangular.

STAM. *Filaments* three, converging, connected above, distinct below, adjoined to the calyx. *Anthers* creeping upward and downward, linear.

\* *Female Flowers.*

CAL. *Perianth* as in the male, above, deciduous.

COR. as in the male.

*Nectary-bearing gland* concave, expanding.

STAM. *Margin* surrounding, ending in three very short pikes.

PIST. *Germ* very large, beneath. *Style* conic, three-cleft at the top, *Stigma* one, creeping upward and down, with a thick convex margin, three-cleft.

PER. *Pome* three-cell'd: the *cells* membranous, soft, distinct.

SEEDS many, compress'd, tumid on the margin, obtuse, placed in a double order.

OBS. Cucurbita T. has seeds end-nick'd at the top.

Pepo T. has seeds girt by an intire tumid margin.

1092. CÚCUMIS. \* *Tournef.* 31. Melo *Tournef.* 32.  
*Colocynthis Tournef.* Anguria  
*Tournef.* Coloquintida, Cucumber,  
 Melon.

\* *Male flowers.*

CAL. *Perianth* one-leaved, bell'd, with a margin terminated by five, awl'd teeth.

COR. five-parted, growing to the calyx: the *divisions* egg'd, vein-wrinkled.

STAM. *Filaments* three, very short, inserted into the calyx, converging, of which *two* are two-cleft at the top. *Anthers* are lines creeping up and down, adjoined outwards. *Receptacle* three-corner'd, lop'd, in the center of the flower.

\* *Female flowers* on the same plant with the male ones.

CAL. *Perianth* as in the males, above, deciduous.

COR. as in the males.

STAM. none. *Filaments* three, pointed, very small, without anthers.

PIST. *Germ* beneath, large. *Style* cylindric, very short. *Stigmas* three, thick, gibbous, two-parted, turned outward.

PER. *Pome* three-cell'd: the *cells* membranous, soft, separate.

SEEDS numerous, egg-acute, compress'd, placed in a double order.

1098. BRYÓNIA. \* *Tournef.* 28. *White Bryony.*

\* *Male flowers.*

CAL. *Perianth* one-leaved, bell'd, five-tooth'd: the *toothlets* awl'd.

COR. five-parted, bell'd, adjoined to the calyx: the *divisions* egg'd.

STAM. *Filaments* three, very short. *Anthers* five, of which *two* are connected on each filament, *one* on the third filament.

\* *Females* on the same plant with the males.

CAL. *Perianth* as in the males, above, deciduous.

COR. as in the males.

PIST. *Germ* beneath. *Style* three-cleft, the length of the expanding corol. *Stigmas* end-nick'd, expanded.

PER. *Berry* subglobular, polished.

SEEDS few, adjoined to the bark, somewhat egg'd.

QBS. B. dioca (*two-house*) of *Jacquin* differs in having *two-house* flowers. R.

1094. SI-

1094. SICYOS. \* *Sycyoides Tournef.* 28. *Bryonioides Dill. elth.* 51. *Single-seeded Cucumber.*

\* *Male flowers.*

CAL. *Perianth* one-leaved, bell'd, five-tooth'd: the *toothlets* awl'd.

COR. five-parted, bell'd, growing to the calyx: the *divisions* egg'd.

STAM. *Filaments* three, coalesced. *Anthers* as many disjoined.

\* *Female flowers on the same plant.*

CAL. *Perianth* as in the male, above, deciduous.

COR. as in the male.

PIST. *Germ* egg'd, beneath. *Style* cylindric. *Stigma* thickish, three-cleft.

PER. *Berry (Drupe)* egg'd, beset with thorns, one-cell'd.

SEED one, somewhat egg'd.

## XI. FEMININE MALES.

(*Gynandria.*)

1095. ANDRACHNE. \* *Thelephioides Tournef.* 365. *Dill. elth.* 282. *False Orpine.*

\* *Male flowers.*

CAL. *Perianth* five-leaved, equal, withering.

COR. *Petals* five, end-nick'd, slender, shorter than the calyx.

*Nectary* with five half-twocleft, herbaceous leaflets, one within each petal, less than the petal.

STAM. *Filaments* five, small, inserted into the rudiment of each style.

\* *Female flowers on the same plant with the males.*

CAL. *Perianth* five-leaved, equal, permanent.

COR. *Petals* none.

*Nectary* intirely as in the males.

PIST. *Germ* globular. *Styles* three, thread-form, half-twocleft. *Stigmas* globular.

PER. *Capsule* globe-threelobed, three-cell'd: the *cells* two-valved, the size of the calyx.

SEEDS two, rounded on one side, angular on the other, obtuse, three-corner'd.

OBS. *It is allied to Clutia.*

1320. AGY-

## 1320. AGYNEIA. †

\* *Male flowers below.*

CAL. *Perianth* six-leaved: the *leaflets* oblong, obtuse, equal, permanent.

COR. none.

STAM. in the place of the *Filaments* a column shorter than the calyx. *Anthers* three or four, adjoined to the column under its top, oblong.

\* *Female flowers above on the same plant.*

CAL. as in the males, rudér.

COR. none.

PIST. *Germ* the size of the calyx, somewhat egg'd, obtuse, perforated at the top with a six-notch'd hole. *Style* none. *Stigma* none.

PER. *Capsule* three-grain'd?

SEED - - -

OBS. *It is most distinguished by the want of the style and stigma.*

CLASS

## CLASS XXII.

## TWO HOUSES.

(Dioécia.)

The character of the class Two-Houses consists in the male or female flowers being placed on a separate plant.

All the plants of this class are males or females.

Therefore in every species of this class there is a male and female; but no Hermaphrodite or Androgynous plants.

Here the difference of Sex is individual, exactly as in animals.

The males therefore are produced from seeds in this class.

The females therefore in the absence of the males are unable to propagate their species, as the examples of exotic plants in our gardens testify.

If of the plants in the same species one is male or female, but another hermaphrodite, they relate to the following class.

Indeed there are many species which are males and females, yet cannot have a place here, because not all, of the same genus, are distinct in sex. E. gr. *Morus*, *Urtica*, *Rumex*, *Silene*, *Phytica*, *Salix*, *Acer*, *Spiræa*, *Rubus*, *Guilandina*, *Gypsophila*, *Napæa*, *Clematis*, *Thalictrum*, *Gnaphalium*, *Carex*, *Valeriana*, *Rhamnus*, *Lychnis*.

It is singular, that no species distinct in sex has yet been observed, as far as is known, among the rough-leaved plants of Ray, or the classes, Two Powers, Four Powers, and Two Brotherhoods, the reason of which is evident on inspecting the structures of the flowers.

TWO

## TWO HOUSES.

(Dioécia.)

## I. ONE MALE.

(Monandria.)

1430 Pandanus.

Keúra.

1096 Náias.

Phelypæa.

## II. TWO MALES.

(Diandria.)

1097 Vallisnéria.

1099 Cecrópia.

1098 Sáliz.

## III. THREE MALES.

(Triandria.)

1100 Émpetrum.

1101 Ofýris.

1431 Mába.

1331 Réstio.

1102 Excoecária.

1280 Catúrus.

## IV. FOUR MALES.

(Tetrandria.)

1103 Tróphis.

1104 Bátis.

1105 Viscum.

1432 Montínia.

1106 Hippophæe.

1107 Myríca.

Brucea.

## V. FIVE MALES.

(Pentandria.)

1108 Pistácia.

1109 Zanthóxylum.

1111 Astrónium.

1281 Canárium.

1110 Antidésmá.

1113 Irésine.

1112 Spinácia.

1114 Acnída.

1115 Cássabis.

1116 Húmulus.

1117 Zanónia.

1118 Feuilléa.

## VI. SIX MALES.

(Hexandria.)

1119 Támus.

1120 Smílax.

1121 Raiána.

1122 Dioscoréa.

## VII. EIGHT MALES.

(Octandria.)

1123 Pópulus.

1124 Rhodíola.

1433 Margaritária.

**VIII. NINE MALES.***(Enneandria.)*

1125 Mercuriális.

1126 Hydócharis.

**IX. TEN MALES.***(Decandria.)*

1127 Cárica.

1128 Kiggelária.

1130 Schínus.

1129 Coriária.

**X. TWELVE MALES.***(Dodecandria.)*

1348 Eucléa.

1132 Datísca.

1133 Menispérmum.

**XI. TWENTY MALES.***(Icosandria.)*

Flacoúrtia.

**XII. MANY MALES.***(Polyandria.)*

1133 Cliffórtia.

1434 Hedycárya.

**XIII. ONE BROTHERHOOD.***(Monadelphía.)*

1134 Juníperus.

1135 Táxus.

1136 Éphedra.

1138 Cissámpelos.

838 Napcéa.

1137 Adélia.

**XIV. CONF. MALES.***(Syngenesia.)*

1139 Rúscus.

**XV. FEMIN. MALES.***(Gynandria.)*

1140 Clútia.

1430. PANDANUS. *Rumph. amb. Athrodactylis*  
*Forst. gen. n. 75. S.*

The male and female *flowers* on different plants.

\* *Male*: *Spathe* none. *Thyrse* compound, from the axils of the leaves, naked.

CAL. none.

COR. none.

STAM. *Filaments* none, but the ultimate ramifications of the *thyrse* are terminated by the anther. *Anther* sessile, oblong, acute, erect, longitudinally slit.

\* *Female*.

CAL. none.

COR. none.

PIST. *Germes* numerous, aggregate, sessile, attenuated inwardly, five-angled, convex at the top, smooth. *Style* none. *Stigmas* two, hearted, margined.

PER. *Fruit* globular, large, composed of *Drupe*s wedge-shape, angular, aggregate, farinaceous, one-seeded.

SEEDS solitary, oval, polish'd.

KEURA. *Thunb. nov. gen. p. 25.*

*Male and female flowers* terminal, separate on a different tree.

\* *Male*.

CAL. and COR. none.

STAM. *Filaments* scatter'd, solitary in a most branching panicle.

*Anthers* linear, acute, erect.

\* *Female*.

CAL. and COR. none, except bractes separating the germes. *Bractes* between the germes, line-lanced, shorter than the germes.

PIST. *Germes* aggregate, sessile, 5-angled, convex, smooth. *Style* none. *Stigmas* two, seldom one, hearted, margin'd.

PER. *Nuts* inverse-egg'd, attenuated beneath, 5-angled, smooth.

1096. NAIAS. † *Fluvialis Vaill. A. G. 1719. t. 1. f. 2. Mich. 8.*

\* *Male.*

CAL. *Perianth* one-leaved, lop'd at the base, cylindric, attenuated above: the mouth with two opposite reflected divisions.

COR. one-petal'd, equal. *Tube* the length of the calyx. *Border* five-parted: the *divisions* oblong, revolute.

STAM. *Filament* none. *Anther* oblong, erect.

\* *Female.*

CAL. none.

COR. none.

PIST. *Germ* egg'd, ending in an attenuated *Style*. *Stigmas* simple, permanent.

PER. *Capsule* egg'd, one-cell'd.

SEEDS egg-oblong.

PHELYPÆA. *Thunb. nov. gen. p. 91.*

\* *Male.*

CAL. none, except the leafy opposite Bractes.

COR. 6-parted, converging: the *divisions* roundish, very obtuse, concave, rather hairy outwards on the back, smooth within, bearded at the base, fringe-notch'd on the margin, slender.

STAM. *Filament* single, erect, very thick, shorter than the corol, similar to the style, inserted on the middle of the receptacle. *Anther* egg'd, club'd, similar to the stigma, dust-bearing. *Dust* pale. *Receptacle* bearded, perforated by six nectareous pores running from the divisions of the corol.

\* *Female.*

CAL. none.

COR. one-petal'd, cloathing the capsule, 6-parted: *Tube* very short: the divisions of the *border* scarcely conjoin'd above the germ, oblong, obtuse, concave, erect, perforated within at the base by a nectareous decurrent pit, bearded.

PIST. *Germ* above, or inclosed in the bottom of the corol, bearded. *Style* very thick, smooth. *Stigma* headed, rather navel'd, striated, rather obliquely lop'd.

PER. *Capsule* columnar, thick, subcompress'd, obtuse, furrow'd, smooth, seven-valved, seven-cell'd. *Column* thick in the middle with an oblong star.

SEEDS many.

II. TWO

## II. TWO MALES.

(Diandria.)

1097. VALLISNÉRIA. † *Mich.* 10. Vallisneroides  
*Mich.* 10.

## \* Male.

CAL. Common *Spathe* two-parted: the *divisions* oblong, two-cleft, reflected.

Common *spadix* compress'd, every where covered with flowers digested in a spike.

COR. one-petal'd, three-parted. *Tube* none: the *divisions* inverse-egg'd, most expanded and reflected.

STAM. *Filaments* two, erect, the length of the corol. *Anthers* simple.

## \* Female.

CAL. *Spathe* one-flower'd, cylindric, long: the *mouth* two-cleft, erect. *Perianth* three-parted, expanding, above: the *divisions* egg'd.

COR. *Petals* three, linear, very narrow, lop'd, rather shorter than the calyx.

*Neetary* an expanding pike, placed beneath each stigma.

PIST. *Germ* cylindric, beneath, long. *Style* scarcely any. *Stigma* three-parted: the *divisions* half-two-cleft, oval, convex, longer than the calyx, expanding, pubescent above.

PER. *Capsule* cylindric, long, one-capsuled, one-cell'd.

SEEDS numerous, egg'd, affixed to the side of the capsule.

OBS. The Male *Vallisneroides* M. displays under water, a floral spike from a very short scape: presently the *florets* are separated from the plant, swim, open and wander, flourishing remote from the plant on the surface of the water.

The Female (*Vallisneria* M.) with a short scape spirally contorted, conceals its fructification under water: the wreath being at length relaxed, the flower rises to the surface of the water.

1099. CE-

1099. CECRÓPIA. † *Loef.* 272. *Coilotopalus*  
*Brown.*

\* *Male.*

CAL. *spathe* egg'd, bursting, falling off, containing  
*Aments* numerous, fascicled, columnar, imbricated with scales:  
*The scales* (Receptacles) copious, top-shape, fourcorner-com-  
 press'd, obtuse, with a double perforation.

COR. none, unless you name the scales nectaries.

STAM. *Filaments* two, capillary, very short from the perforations of  
 the scales. *Anthers* oblong, four-corner'd.

\* *Female.*

CAL. *Spathe* - - - -

*Aments* four, columnar, imbricated with germs.

COR. none.

PIST. *Germes* many, imbricated, fourcorner-compress'd, obtuse. *Styles*  
 solitary, very short. *Stigmas* rather headed, lacerated.

PER. *Berry* the form of the germ, one-cell'd, one-seeded,

SEED oblong, compress'd.

1098. *SALIX*. \* *Tournef.* 364. *Willow. Sallow.*

\* *Male.*

**CAL.** *Common Ament* oblong, every way imbricated (constructed of an involucre from the bud), consisting of

*Scales* one-flower'd, oblong, flat, expanding.

**COR.** *Petals* none.

*Nectary* a gland cylindric, very small, lop'd, meliferous, in the center of the flower.

**STAM.** *Filaments* two, straight, thread-form, longer than the calyx. *Anthers* twin, four-cell'd.

\* *Female.*

**CAL.** *Ament* as in the male.

*Scales* as in the male.

**COR.** none.

**PIST.** *Germ* egg'd, attenuated into a *style* scarcely distinct, rather longer than the scales of the calyx. *Stigmas* two, two-cleft, erect.

**PER.** *Capsule* egg-awl'd, one-cell'd, two-valved: the *valvelets* revolute.

**SEEDS** numerous, egg'd, very small, crowned with a simple shaggy *pappus*.

**OBS.** *There are species, whose males are furnish'd with three or five stamens of unequal length.*

*S. hermaphrodita* (*hermaphrodite*) alone is known to us by *hermaphrodite two-male flowers*.

*That the individuals of the willow change sex, and produce one year male, and another female flowers is a fiction.*

*S. purpurea* (*purple*) bears *one-male flowers*. R.

### III. T H R E E M A L E S. (Triandria.)

1100. ÉMPETRUM. \* *Tournef.* 421. *Black-berry'd Heath. Cow-berry.*

\* *Male.*

CAL. *Perianth* three-parted : the *divisions* egg'd, permanent.

COR. *Petals* three, egg-oblong, narrower at the base, larger than the calyx, withering.

STAM. *Filaments* three, capillary, very long, propendent. *Anthers* erect, short, two-parted.

\* *Female.*

CAL. *Perianth* as in the male.

COR. as in the male.

PIST. *Germ* depress'd. *Style* scarcely any. *Stigmas* nine, reflex-expanding.

PER. *Berry* orbicular, depress'd, one-cell'd, larger than the calyx.

SEEDS nine, placed jointwise in an orb, gibbous on one side, angular on the other.

OBS. *I formerly saw an Hermaphrodite, which I have not since observed.*

1101. OSÝRIS. \* *Casia Tournef.* 488. *Poet's Cassia.*

\* *Male.*

CAL. *Perianth* one-leaved, three-cleft, top-shape : the *divisions* equal, egg'd, acute.

COR. none, except a three-fold nectary-bearing margin.

STAM. *Filaments* three, very short. *Anthers* roundish, small.

\* *Female.*

CAL. *Perianth* as in the male, above, permanent, very small.

COR. none as in the male.

PIST. *Germ* top-shape, beneath. *Style* the length of the stamens. *Stigma* three-parted, expanding.

PER. *Berry* globular, one-cell'd, navel'd.

SEED A small globular *Bone* filling the pericarp.

OBS. *The Stigma is said to be roundish in Syst. Veg.* 737.

1331. RÉS-

## 1331. RÉSTIO.

\* *Male.*CAL. *spike* egg'd, every way imbricated with *scales* membranous, egg'd, one-flower'd.COR. proper: *Petals* six, egg-oblong, subequal, shorter than the scales of the calyx, membranous, permanent.STAM. *Filaments* three, capillary. *Anthers* oblong, erect.\* *Female.*

CAL. as in the male.

COR. as in the male.

PIST. *Germ* beneath, roundish, six-furrow'd. *Styles* three, awl'd, erect, permanent. *Stigmas* thread-form, withering.PER. *Capsule* roundish, six-plaited: (the plaits approximated in pairs), beaked with converging styles, three-cell'd.

SEEDS few, cylinder-oblong, obtuse.

OBS. Cl. Rottbóll acknowledges for the calyx the three exterior petals, tho' they differ not only in their form, but also in their fabric as well as texture, from the three interior ones. Vid. ejusd. descript. &amp; ic. plant. rar. Lib. 1. p. 2. R.

## 1431. MÁBA. Forst. gen. n. 61. S.

\* *Males.*CAL. *Perianth* three-cleft beyond the middle: the *divisions* oblong, parallel, channel'd.COR. one-petal'd, tubular, most villous without, longer than the calyx. *Border* three-cleft: the *divisions* thickish, erect.STAM. *Filaments* three, very short. *Anthers* erect, egg'd.

PIST. none.

\* *Female flowers* on a distinct plant.CAL. *Perianth* as in the male.

COR. unknown.

PIST. not seen.

PER. *Drupe* above, egg'd, oblong, two-cell'd: the *cells* two-seeded.SEEDS *Nuts* two, oblong, three-sided.

1102. EX-

1102. EXCOECÁRIA. *Rumph.*\* *Male.*CAL. *Ament* cylindric, covered with flowers.

COR. none.

STAM. *Filaments* three, thread-form. *Anthers* roundish.\* *Female.*CAL. *Ament* as in the male.

COR. none.

PIST. *Germ* roundish, somewhat three-fided. *Styles* three. *Stigmas* simple.PER. *Berry* (*Capsule*) three-grained, smooth, the cells ploughed with a furrow.

SEEDS solitary, smooth.

## 1280. CATÚRUS.

\* *Male.*

CAL. none.

COR. one-petal'd, tubular, half-threecleft: the *divisions* egg'd, concave, acute, permanent.STAM. *Filaments* three, capillary, longer than the corol. *Anthers* roundish.\* *Female.*CAL. *Perianth* three-parted: the *leaflets* egg'd, flat, permanent.

COR. none.

PIST. *Germ* villous. *Styles* three, long, feather-many cleft, colour'd. *Stigmas* acute.PER. *Capsule* roundish, three-grained, three-cell'd.

SEEDS solitary, round.

OBS. *I saw the male flowers less distinctly.*

# IV. F O U R M A L E S.

(Tetrandria.)

1103. TRÓPHIS. † *Brown. Bucephalon gen. pl. ed. VI. p. 575. (Ox-head.)*

\* *Male.*

CAL. none.

COR. *Petals* four, obtuse, expanding.

STAM. *Filaments* four, capillary, longer than the corol.

\* *Female* on a separate plant.

CAL. one-leaved, very small, closely cloathing the germ.

COR. none.

PIST. *Germ* egg'd. *Style* thread-form, two-parted. *Stigmas* adjoined.

PER. *Berry* substriated, wrinkled, one-cell'd.

SEED one, subglobular.

OBS. *The female flower has no calyx.* S. V. 739.

1104. BÁTIS. † *Brown. Jacq. amer. 260.*

\* *Male.*

CAL. *Ament* pyramidal, the *scales* one-flower'd four ways imbricated.

COR. none.

STAM. *Filaments* four, erect, longer than the *scales* of the ament.

*Anthers* oblong, twin, incumbent.

\* *Female* on a separate plant.

CAL. *Ament* common, fleshy, containing some *florets* globed in an egg'd body, quadrangular: the involucre two-leaved.

COR. none.

PIST. *Germ* quadrangular, adjoined to the ament. *Style* none. *Stigma* two-lobed, obtuse, villous.

PER. *Berry* conjoined with the rest, one-cell'd.

SEEDS four, triangular, pointed.

1105. VÍS-

1105. VISCUM. \* *Tournef.* 380. *Mistletoe.*\* *Male.*CAL. *Perianth* four-parted : the *leaflets* egg'd, equal.

COR. none.

STAM. four. *Filaments* none. *Anthers* oblong, pointed, each adjoined to each calyx-leaflet.\* *Female* oftner opposite to the male.CAL. *Perianth* four-leaved : the *leaflets* egg'd, small, sessile, deciduous, sitting on the germ.

COR. none.

PIST. *Germ* oblong, three-corner'd, obscurely crowned with a four-cleft margin, beneath. *Style* none. *Stigma* obtuse, scarcely end-nick'd.PER. *Berry* globular, one-cell'd, polish'd.

SEED one, hearted, compress'd, obtuse, fleshy.

## 1432. MONTINIA. S.

\* *Male.*CAL. *Perianth* above, four-tooth'd, very short, erect.COR. *Petals* four, egg'd, most obtuse, expanding.STAM. *Filaments* four. *Anthers*.\* *Female* on a distinct individual.

CAL. as in the male.

COR. as in the male.

STAM. *Filaments* without anthers.PIST. *Germ* beneath, retuse. *Style* cylindric, two-cleft, shorter than the corol. *Stigmas* kidney-form.PER. *Capsule* egg'd, oblong, two-cell'd, gaping longitudinally.

SEEDS many, imbricated, egg'd, depress'd, winged with a margin.

1106. HIPPOPHAE. \* *Rhamnoides Tournef.* 481.  
*Sea Buckthorn.*

\* *Male.*

CAL. *Perianth* one-leaved, two-parted, two-valved, with an intire bottom: the *divisions* roundish, obtuse, concave, erect, the tops converging; the sides gaping.

COR. none.

STAM. *Filaments* four, very short. *Anthers* oblong, angular, nearly the length of the calyx.

\* *Female.*

CAL. *Perianth* one-leaved, egg-oblong, tubular, club'd, (with a two-cleft mouth), deciduous.

COR. none.

PIST. *Germ* roundish, small. *Style* simple, very short. *Stigma* thickish, oblong, erect, twice as long as the calyx.

PER. *Berry* globular, one-cell'd.

SEED one, roundish.

1107. MYRICA. \* *Gale Tournef. A. G.* 1706. t.  
 3. *Dill. gen.* 10. *Candle-berry*  
*Myrtle. Sweet Gale.*

\* *Male.*

CAL. *Ament* egg-oblong, every where imbricated, loose, consisting of *Scales* one-flower'd, mooned, obtusely pointed, concave.  
*Proper Perianth* none.

COR. none.

STAM. *Filaments* four, (rarely six), thread-form, short, erect. *Anthers* large, twin, with two-cleft lobes.

\* *Female.*

CAL. as in the male.

COR. none.

PIST. *Germ* somewhat egg'd. *Styles* two, thread-form, longer than the calyx. *Stigmas* simple.

PER. *Berry* one-cell'd.

SEED one.

OBS. *This genus has a very great affinity with Pistacia.*

*M. Gale has four Stamens. The Berry dry, or a leathery crust, compress'd at the top, three-lob'd.*

*M. cerifera (wax-bearing) J. B. has oftner six Stamens, the Fruit a succulent, globular Berry.*

BRU-

BRUCÉA. L'Heritier. *Stirpes novæ*. Fasc. 1.\* *Male*.

CAL. *Perianth* (if you please) 4-leaved, or absolutely 4-parted, flat, villous: *leaflets* or *divisions* line-lanced, acute, expanding.

COR. *Petals* four, line-lanced, acute, fringed, expanding, inserted between the divisions of the calyx beneath the nectary, scarcely larger than the calyx.

*Nectary* a flat body, placed on the receptacle, obtusely four-lobed: the lobes broad, rather end-nick'd, opposite the petals.

STAM. *Filaments* four, erect, short, opposite the calyx, inserted on the receptacle between the lobes of the nectary. *Anthers* roundish, four-corner'd, two-cell'd, blushing.

PIST. none.

\* *Female*.

CAL. and COR. as in the male.

*Nectary* the interior margin of the receptacle thicken'd, obtusely four-lobed: the lobes broad, end-nick'd.

STAM. *Filaments* four, antherless, inserted on the sides of the receptacle on the outside of the interstices of the nectary, thread-form, thicker towards the top, acutish, blushing, rather shorter than the petals.

PIST. *Germes* four, above, egg'd, rather compress'd inwards, smooth. *Styles* awl'd, reflected, appress'd to the germes. *Stigmas* simple, acute.

PER.

SEEDS solitary.

## V. FIVE MALES.

(Pentandria.)

1108. PISTÁCIA. \* *Terebinthus Tournef.* 345.  
(*Turpentine-tree.*) *Pistacia-nut.*

\* *Male.*

CAL. *Ament* loose, scattered, consisting of small one-flower'd scales.  
Proper *Perianth* five-cleft, very small.

COR. none.

STAM. *Filaments* five, very small. *Anthers* egg'd, four-corner'd,  
erect, expanded, large.

\* *Female.*CAL. *Ament* none.*Perianth* three-cleft, very small.

COR. none.

PIST. *Germ* egg'd, larger than the calyx. *Styles* three, reflected.  
*Stigmas* thickish, hispid.

PER. *Drupe* dry, egg'd.SEED a *Nut* egg'd, smooth.OBS. *Terebinthus T. has* feather'd leaves with an odd one.*Lentiscus T. has* feather'd leaves without an odd one.

1109. ZANTHÓXYLUM. (*Yellow-wood*) † *Col-*  
*den Fagara du Hamel. Toothach-tree.*

\* *Male.*CAL. *Perianth* five-parted: the leaflets oval, erect, colour'd.

COR. none.

STAM. *Filaments* oftner five, awl'd, erect, longer than the calyx.  
*Anthers* twin, roundish, furrow'd.

\* *Female.*

CAL. as in the male.

COR. none.

PIST. *Germ* roundish, ending in an awl'd style, longer than the  
calyx. *Stigma* obtuse.

PER. *Capsule* oblong, one-cell'd, two-valved.

SEED one, roundish, smooth.

OBS. *I have borrow'd the Pistil and Fruit from Duhamel, but Colden*  
*mentions Pistils 4-6 fenced at the base with a pedicel.*

CAL. five-cleft, colour'd, very small. *Petals* five, egg'd. *Stamens*  
five, the length of the petals.

PIST. *Germ* twin, roundish. *Styles* two, very small. *Stigmas* acute.  
*Gron. virg.* 47. *Inspection must determine it.*

*In Syst. Veg. p. 741. Pistils five, and Capsules five, one-seeded*  
*are now ascribed to this genus. Brown also draws the character*  
*in another manner. R.*

III. AS

1111. ASTRONIUM. *Jacq. amer.* 261.\* *Male.*

CAL. *Perianth* five-leaved, colour'd, small: the *leaflets* egg'd, concave, obtuse, spreading.

COR. *Petals* five, egg'd, most obtuse, flat, most expanding.

*Nectary* with glands five, roundish, very small, in the disk of the flower.

STAM. *Filaments* five, awl'd, expanding, the length of the corol. *Anthers* oblong, incumbent.

\* *Female.*

CAL. *Perianth* five-leaved, colour'd: the *leaflets* oblong, concave, obtuse, converging.

COR. *Petals* five, rather egg'd, obtuse, concave, erect, less than the calyx, permanent.

PIST. *Germ* egg'd, obtuse. *Styles* three, short, reflected. *Stigmas* somewhat headed.

PER. none. *Calyx* increased, colour'd, its leaflets at first expanded in a pendulous star, at length dismissing the seed.

SEED one, oval, the length of the calyx, lactescent.

## 1281. CANARIUM.

\* *Male.*

CAL. *Perianth* two-leaved: the *leaflets* egg'd, concave, permanent.

COR. *Petals* three, oblong, calyx-form.

STAM. *Filaments* five, very short. *Anthers* oblong, the length of the petals.

\* *Female.*

CAL. as in the male: with reflected leaflets.

COR. as in the male.

PIST. *Germ* egg'd. *Style* scarcely any. *Stigma* headed, three-corner'd.

PER. *Drupe* dry, egg'd, pointed, girt at the base with a notch'd membrane.

SEED a *Nut* egg'd, three-corner'd, acute.

## 1110. AN-

1110. ANTIDÉSMA. † *Burm.*\* *Male.*CAL. *Perianth* five-leaved: the *leaflets* oblongish, concave.

COR. none.

STAM. *Filaments* five, capillary, longer than the calyx, equal.  
*Anthers* roundish, half-two-lobed.\* *Female* on a separate individual.

CAL. as in the male, permanent.

COR. none.

PIST. *Germ* egg'd. *Style* none. *Stigmas* five, obtuse.PER. *Berry* cylindric, one-cell'd, crowned with stigmas.

SEED one.

1113. IRÉSINE. † *Brown.*\* *Male.*CAL. *Perianth* two-leaved, very small, acute, glossy.COR. *Petals* five, sessile, lanced, erect.*Nectary* of scales five, with the stamens interposed.STAM. *Filaments* five, erect. *Anthers* roundish.\* *Female.*

CAL. as in the male.

COR. as in the male.

PIST. *Germ* egg'd. *Style* none. *Stigmas* two, roundish.PER. *Capsule* oblong-egg'd.

SEEDS few, downy.

X x

1112. SPI-

1112. SPINÁCIA. \* *Tournef.* 308. *Spinach.*\* *Male.*CAL. *Perianth* five-parted: the *divisions* concave, oblong, obtuse.

COR. none.

STAM. *Filaments* five, capillary, longer than the calyx. *Anthers* oblong, twin.\* *Female.*CAL. *Perianth* one-leaved, four-cleft, acute: (the two opposite *divisions* very small), permanent.

COR. none.

PIST. *Germ* round-compress'd. *Styles* four, capillary. *Stigmas* simple.PER. none, the *Calyx* becomes coalesced, indurated.

SEED one, roundish, covered.

OBS. *The fruit is sometimes round, sometimes two-horned, sometimes four-horned.*1114. ACNÍDA. † *Acnide Mitch.*\* *Male.*CAL. *Perianth* five-leaved: the *leaflets* egg'd, concave, acute, membranous on the margin.

COR. none.

STAM. *Filaments* five, capillary, very short. *Anthers* versatile, two-cell'd, forked at both ends.\* *Female* on a separate plant.CAL. *Involucre* many-leaved, linear, deciduous.*Perianth* two-leaved, linear, very small, permanent.

COR. none.

PIST. *Germ* egg'd. *Styles* five, long, reflected, pubescent. *Stigmas* simple.PER *Fruit* egg'd, compress'd, many-angled, furrow'd, covered with a succulent calyx.

SEED solitary, round, compress'd.

## 1115. CÁN-

1115. CANNABIS. \* *Tournef.* 308. *Hemp.*\* *Male.*CAL. *Perianth* five-parted: the *leaflets* oblong, point-obtuse, concave.

COR. none.

STAM. *Filaments* five, capillary, very short. *Anthems* oblong, four-corner'd.\* *Female.*CAL. *Perianth* one-leaved, oblong, pointed, gaping longitudinally on one side, permanent.

COR. none.

PIST. *Germ* very small, *Styles* two, awl'd, long. *Stigmas* acute.PER. very small. *Calyx* straitly closed.SEED a *Nut* globe-depress'd, two-valved.1116. HUMULUS. \* *Lupulus Tournef.* 309.  
*Hop.*\* *Male.*CAL. *Perianth* five-leaved: the *leaflets* oblong, concave, obtuse.

COR. none.

STAM. *Filaments* five, capillary, very short. *Anthems* oblong.\* *Female.*CAL. *Universal Involucre* four-cleft, acute: the *partial one* four-leaved, egg'd, eight-flower'd, of each flower of which the *Perianth* is one-leaved, egg'd, very large, flat without on one side, converging at the base.

COR. none.

PIST. *Germ* very small. *Styles* two, awl'd, reflex-expanded. *Stigmas* acute.PER. none. *Calyx* including the seed at the base.

SEED roundish, covered with a coat.

## 1117. ZANÓNIA. †

\* *Male.*CAL. *Perianth* three-leaved: the *leaflets* egg'd, spreading, shorter than the corol.COR. one-petal'd, five-parted, expanding: the *divisions* pointed, inflected, equal.STAM. *Filaments* five, expanding, the length of the calyx. *Anthers* simple.\* *Female* on a distinct plant.CAL. *Perianth* as in the male, sitting on the germ.

COR. as in the male.

PIST. *Germ* oblong, beneath. *Styles* three, expanding, conic, reflected, permanent. *Stigmas* two-cleft, curled.PER. *Berry* long, very large, lop'd, attenuated at the base, girt towards the top with a curled suture, three-cell'd.

SEEDS two, oblong-round, flat, in the center of a lanced scale.

1118. FEUILLÉA. † Nhandiroba *Plum.* 27.\* *Male.*CAL. *Perianth* bell'd, one-leaved, half-fivecleft, rounded below, expanding above.COR. one-petal'd, wheel'd. *Border* half-fivecleft: the *divisions* convex, rounded; the navel closed with a double *star*, respecting the motion of the sun, and with the alternate rays longer.STAM. *Filaments* five, awl'd. *Anthers* twin, roundish.*Nectary* with filaments five, compress'd, incurved, alternating with the stamens.\* *Female.*CAL. *Perianth* as in the male flower, but big with a germ at the base.COR. as in the male flower: the *star* of the navel furnish'd from five hearted folds.PIST. *Germ* beneath. *Styles* five, thread-form. *Stigmas* hearted.PER. *Berry* very large, fleshy, with a hard bark, egg'd, obtuse, three-cell'd, girt with the calyx.

SEEDS compress'd, orbicular.

## VI. SIX MALES.

(Hexandria.)

1119. TÁMUS. \* Tamnus Tournef. 28. Black Bryony.

\* Male.

CAL. Perianth six-parted: the leaflets egg-lanced, more expanding above.

COR. none.

STAM. Filaments six, simple, shorter than the calyx. Anthers erect.

\* Female.

CAL. Perianth one-leaved, six-parted, bell'd, expanding: (the divisions lanced), above, deciduous.

COR. Petals none.

Nectaries: an oblong point adjoined internally to the base of each division of the calyx.

PIST. Germ egg-oblong, large, smooth, beneath. Style cylindric, the length of the calyx. Stigmas three, reflected, end-nick'd, acute.

PER. a Berry egg'd, three-cell'd.

SEEDS two, globular.

1120. SMÍLAX. \* Tournef. 421. Rough Bindweed.

\* Male.

CAL. Perianth six-leaved, bell-expanding: the leaflets oblong, approximated at the base, reflected at the top, spreading.

COR. none: unless you adopt the calyx.

STAM. Filaments six, simple. Anthers oblong.

\* Female.

CAL. as in the male, deciduous.

COR. none.

PIST. Germ egg'd. Styles three, very small. Stigmas oblong, reflected, pubescent.

PER. Berry globular, three-cell'd.

SEEDS two, globular.

X x 3

1121. RA-

## 1121. RAJANIA. † Jan-Raja Plum. 29.

CAL. *Perianth* six-parted, bell'd: the *leaflets* oblong, pointed, more expanding above.

COR. none.

STAM. *Filaments* six, bristly, shorter than the calyx. *Anthers* simple.

\* *Female.*

CAL. *Perianth* one-leaved, six-parted, bell'd, sitting on the germ, permanent, withering.

COR. none.

PIST. *Germ-bearing*, compress'd, augmented with a prominent margin on one side. *Styles* three, the length of the calyx. *Stigmas* obtuse.

PER. *Fruit* roundish, augmented by a *wing* very large, obtuse, affixed on one side, but so inflected as nearly to surround the whole fruit.

SEEDS solitary, roundish.

## 1122. DIOSCOREA. \* Plum. gen. 26.

\* *Male.*

CAL. *Perianth* one-leaved, bell'd, six-parted: the *divisions* lanced, expanding, above.

COR. none: unless you adopt the calyx.

STAM. *Filaments* six, capillary, very short. *Anthers* simple.

\* *Female.*

CAL. *Perianth* as in the male.

COR. none.

PIST. *Germ* very small, three-corner'd. *Styles* three, simple. *Stigmas* simple.

PER. *Capsule* large, triangular, three-cell'd, three-valved.

SEEDS two, compress'd, girt with a large membranous margin.

## VII. EIGHT

## VII. EIGHT MALES.

(Octandria.)

1123. PÓPULUS. \* *Tournef.* 365. *Poplar, Tamahaca.*

\* *Male.*

CAL. *Common Ament* oblong, loosely imbricated, cylindric, consisting of  
Scales one-flower'd, oblong, flat, lacerated on the margin.

COR. *Petals* none.

*Nectary* one-leaved, top-shape below, tubular, obliquely terminated  
above in an egg'd border.

STAM. *Filaments* eight, of all the shortest. *Anthers* four-corner'd,  
large.

\* *Female.*

CAL. *Ament* as in the male.

*Scales* as in the male.

COR. *Petals* none.

*Nectaries* as in the male.

PIST. *Germ* egg-pointed. *Style* scarcely manifest. *Stigma* four-cleft.

PER. *Capsule* egg'd, two-cell'd, two-valved: the *valvelets* reflected.

SEEDS numerous, egg'd, flying with a capillary *Pappus*.

OBS. *The Author now assumes the Nectary for the Corol.* *Syst. Veg. p.*

745. R.

X x 4

1124. RHO-

1124. RHODIOLA. \* *Rose-root.*\* *Male.*CAL. *Perianth* four-parted, concave, erect, obtuse, permanent.COR. *Petals* four, oblong, obtuse, erect-expanding, twice as long as the calyx; deciduous.*Nectaries* four, erect, end-nick'd, shorter than the calyx.STAM. *Filaments* eight, awl'd, longer than the corol. *Anthers* simple.PIST. *Germ*s four, oblong, pointed. *Styles* and *Stigmas* obscure.

PER. abortive.

SEEDS

\* *Female.*CAL. *Perianth* as in the male.COR. *Petals* four, rude, erect, obtuse, equal with the calyx, permanent.*Nectaries* as in the male.PIST. *Germ*s four, oblong, pointed, ending in straight simple *styles*.  
*Stigmas* obtuse.PER. *Capsules* four, horned, gaping inward.

SEEDS numerous, roundish.

OBS. *There are said to be no petals in the feminine plants in Syst. Veg.*  
745. *altho' there are certainly four obscure ones.* R.

## 1433. MARGARITARIA. S.

\* *Males* very numerous on a distinct individual.CAL. *Perianth* one-leaved, four-tooth'd, minute, permanent.COR. *Petals* four, roundish, inserted into the calyx.STAM. *Filaments* eight, bristly, spreading, longer, inserted into the receptacle. *Anthers* roundish, small.PIST. *Germ* above, roundish. *Style* bristly, the length of the stamens.  
*Stigma* obtuse.\* *Females* on a distinct individual.

CAL. as in the male, permanent.

COR. as in the male.

PIST. *Germ* globular, above. *Styles* four or five, thread-form. *Stigmas* simple, permanent.PER. *Berry* globular: with spreading short *styles*.SEED an *Aril* four or five-grain'd, four or five-cell'd, cartilaginous,  
very glossy: *Grains* globular, two-valved: *Seeds* egg'd, compressed within.OBS. *The Calyx is always four-cleft. Styles and Arils four or five.*

## VIII. NINE MALES.

(Enneandria.)

1125. MERCURIALIS. \* *Tournef.* 308. *Mercury.*\* *Male.*CAL. *Perianth* three-parted: the *divisions* egg-lanced, concave, expanding.

COR. none: unless you adopt the calyx.

STAM. *Filaments* nine or twelve, capillary, straight, the length of the calyx. *Anthers* globular, twin.\* *Female.*CAL. *Perianth* as in the male.

COR. none.

*Nectaries*: Points two, awl'd, one on each side of the germ, impressed with a furrow of the germ.PIST. *Germ* roundish, compress'd, plough'd on each side with a furrow, hispid. *Styles* two, reflected, horned, hispid. *Stigmas* acute, reflected.PER. *Capsule* roundish, bag-form, twin, two-cell'd.

SEEDS solitary, roundish.

OBS. *M. ambigua* (*ambiguous*) and *afra* (*african*) is one-house.

1126. HY-

1126. HYDRÓCHARIS. \* *Stratiotes Dill. gen. 9.*  
*Morsus Ranæ Tournef. A. G. 1705. t. 4.*  
*Microleuconymphæa (small white nymphæa.)*  
*Boerb. 232. Frog's bit.*

\* *Male.*

CAL. *Spathe* three-flower'd, two-leaved, oblong.

*Perianth* proper, three-leaved: the *leaflets* egg-oblong, concave, membranous on the margin.

COR. *Petals* three, roundish, flat, large.

STAM. *Filaments* nine, awl'd, erect, disposed in three orders, of which the intermediate order protrudes an awl'd stipe from its interior base, like a style, and places it in the center. The two other orders are connected at the base, so that the internal and external filament cohere. *Anthers* simple.

PIST. a rudiment of the *Germ* in the center.

\* *Female.*

CAL. *Spathe* none, flowers solitary.

*Perianth* as in the male, above.

COR. as in the male.

PIST. *Germ* roundish, beneath. *Styles* six, the length of the calyx, compress'd, two-cleft-channel'd. *Stigmas* two-cleft, pointed.

PER. *Capsule* leathery, roundish, six-cell'd.

SEEDS numerous, very small, roundish.

IX. T E N

## IX. T E N M A L E S.

(Decandria.)

## 1127. CÁRICA. Papaya Tournef. 441. Papaw.

\* Male.

CAL. scarcely manifest

COR. one-petal'd, funnel-form. Tube slender, very long, gradually narrower downward. Border five-parted: the divisions lance-lined, obtuse, revolute obliquely in a spire.

STAM. Filaments ten, in the top of the tube of the corol, of which the five alternate ones are inferior. Anthers oblong.

\* Female.

CAL. Perianth very small, five-tooth'd, permanent.

COR. five-petal'd. Petals lance-linear, obtuse at both ends, very long, erect below the middle, above the middle retroflected outward and downward.

PIST. Germ egg'd. Style scarcely any. Stigmas five, oblong, flat-expanding, broader outward, lop'd at the top, notch'd.

PER. Berry very large, angular with five-furrows, one-cell'd.

SEEDS numerous, egg'd, plough'd with furrows, coated.

## 1128. KIGGELÁRIA. \*

\* Male.

CAL. Perianth one-leaved, five-parted, concave: the divisions lanced, concave.

COR. Petals five, lanced, concave, rather longer than the calyx, and with it forming a pitcher'd figure.

Nectary: Glands obtusely lobed with the middle lobe larger, depress'd, colour'd, one adjoined to the claw of each petal.

STAM. Filaments ten, very small. Anthers oblong, shorter than the calyx, gaping at the tops with two perforations.

\* Female.

CAL. as in the male.

COR. as in the male.

PIST. Germ roundish. Styles five, simple. Stigmas obtuse.

PER. Capsule leathery, globular, rugged, one-cell'd, five-valved.

SEEDS numerous, roundish, angular on one side, cloathed with a proper coat.

1130. SCHÍ-

1130. SCHINUS. \* *Molle Tournef. Indian Mastick.*  
\* *Male.*

CAL. *Perianth* one-leaved, five-parted, expanding, acute.

COR. *Petals* five, oval, expanding, petioled.

STAM. *Filaments* ten, thread-form, the length of the corol, expanding. *Anthers* roundish.

PIST. a Rudiment without a stigma.

\* *Female.*

CAL. *Perianth* one-leaved, five-parted, acute, permanent.

COR. *Petals* five, oblong, expanding, petioled.

PIST. *Germ* roundish. *Style* none. *Stigmas* three, egg'd,

PER. *Berry* globular, three-cell'd.

SEEDS solitary, globular.

1129. CORIARIA. \* *Nissol A. G. 1711. t. 12.*  
*Dill. gen. 12. Myrtle Sumach.*

\* *Male.*

CAL. *Perianth* five-leaved, very short: the *leaflets* somewhat egg'd, concave.

COR. *Petals* five, very similar to the calyx, connected.

STAM. *Filaments* ten, the length of the corol. *Anthers* oblong, two-parted.

\* *Female.*

CAL. *Perianth* five-leaved, very short: the *leaflets* somewhat egg'd, concave.

COR. *Petals* five, piked, calyx-form, converging.

STAM. *Filaments* ten, (five within the calyx, five within the petals), very short. *Anthers* sterile.

PIST. *Germ*s five, compress'd, coalesced within. *Styles* as many, bristly, long. *Stigmas* simple.

PER. none. *Petals* five, fleshy, egg-lanced, three-sided with one angle looking inward, covering the seeds.

SEEDS five, kidney-form.

OBS. *Hermaphrodite flowers have been seen by others.*

# X. TWELVE MALES. (Dodecandria.)

## 1348. EUCLÉA. S.

\* *Male.*CAL. *Perianth* very small, five-tooth'd.COR. *Petals* five, oval, sessile.STAM. *Filaments* fifteen, short. *Anthers* oblong, erect, acute.

PIST. without a germ.

\* *Female* on a distinct plant.

CAL. as in the male, permanent.

COR. as in the male.

PIST. *Germ* above, somewhat egg'd. *Styles* two, shorter than the corol. *Stigmas* four-tooth'd, obtuse.PER. *Berry* two-cell'd, egg'd.

SEEDS solitary.

1132. DATÍSCA. \* *Cannabina* Tournef. cor. 52.  
*False Hemp.*\* *Male.*CAL. *Perianth* five-leaved: the *leaflets* linear, acute, equal.

COR. none.

STAM. *Filaments* scarcely any. *Anthers* about fifteen, oblong, many times longer than the calyx, obtuse.\* *Female.*CAL. *Perianth* two-tooth'd, (the third tooth being deficient), erect, very small, above, permanent.

COR. none.

PIST. *Germ* oblong, beneath, longer than the calyx. *Styles* three, two-parted, short. *Stigmas* simple, oblong, villous, the length of the germ.PER. *Capsule* oblong, triangular, three-valved, three-horn'd, one-cell'd.  
SEEDS numerous, small, three ways adhering longitudinally to the capsule.

1131. ME-

1131. MENISPEPMUM. \* *Tournef. A.G. 1705.**Moon seed.*\* *Male.*CAL. *Perianth* two-leaved : the *leaflets* linear, short.COR. the *exterior Petals* four, egg'd, spreading, equal.The *interior Petals* eight, egg'd, concave, less than the exterior ones, of these four are in an interior series.STAM. *Filaments* sixteen, cylindric, rather longer than the corol.*Anthers* terminal, very short, obtusely four-lobed.\* *Female.*

CAL. as in the male.

COR. as in the male.

STAM. *Filaments* eight, similar to those of the male. *Anthers* pelucid, sterile.PIST. *Germes* two, egg'd, incurved, converging, pedicel'd. *Styles* solitary, very short, recurvate. *Stigmas* two-cleft, obtuse.PER. *Berries* two, somewhat round-kidneyform, one-cell'd.

SEEDS solitary, kidney-form, large.

The character is from *M. canadense* (canadian); let the fructifications of the rest be compared, since the calyx is six-leaved, the corol six-petal'd, the stamens six, the pistils three, according to *Willichius, Miller, and others.*

# XI. TWENTY MALES. (Icosandria.)

FLACOURTIA. (Ramontehi) L'Heretier.

p. 59.

\* *Male.*

CAL. *Perianth* one-leaved, five-parted, waved, subvillous: the divisions roundish, obtuse, subequal, expanding.

COR. none.

STAM. *Filaments* very numerous (50-100) longer than the calyx, placed on the whole undivided bottom of the calyx, (which is thicken'd like a receptacle), expanding, subcapillary. *Anthers* roundish, two-cell'd.

PIST. none, sometimes a kind of rudiment of a *Germ* and of *Stigmas*.

\* *Female.*

CAL. *Perianth* five-seven-leaved: the leaflets roundish, erect, imbricated on the margin, pubescent within.

COR. none.

PIST. *Germ* above, egg'd, large, longer than the calyx. *Styles* 5-9, horizontal, thick, one-friated above, the length of the diameter of the germ, permanent. *Stigmas* obtuse, (unless you adopt the whole ray of the styles for a single navel'd, many-parted stigma.)

PER. *Berry* globular, many-corner'd when dry, fleshy, mark'd with styles and stigmas, many-cell'd.

SEEDS two in each cell, one placed vertically on the other, inserted together on the common axis by a thread, bony, obscure, compress'd, rather furrow'd at top.

XII.

## XII. MANY MALES.

(Polyandria.)

## 8133. CLIFFORTIA. \*

\* Male.

CAL. *Perianth* three-leaved: the *leaflets* egg'd, acute, leathery, expanding, deciduous.

COR. none.

STAM. *Filaments* thirty, (or thereabout), capillary, erect, the length of the calyx. *Anthers* twin, oblong, obtuse, erect, compress'd.

\* Female.

CAL. *Perianth* three-leaved, equal, erect, above, permanent: the *leaflets* acute, lanced.

COR. none.

PIST. *Germ* oblong, beneath. *Styles* two, thread-form, long, feathery, *Stigmas* simple.PER. *Capsule* oblong, columnarish, two-cell'd, crown'd with the calyx.

SEEDS solitary, columnarish, linear.

## 1434. HEDYCARYA. Forst. gen. n. 64. S.

\* Male.

CAL. *Perianth* one-leaved, flat-wheel'd, eight-or ten-cleft: the *divisions* lanced, equal.

COR. none.

STAM. *Filaments* none. *Anthers* many, (fifty) oblong, four-furrow'd, bearded at the top, covering the whole bottom of the calyx.

\* Female.

CAL. as in the male, permanent.

COR. none.

PIST. *Pedicels* short, numerous, cylindric, in the middle of the calyx, elevating the globe-depress'd *germs*. *Style* none, the *Stigmas* are *Papillæ* scatter'd over the *germs*.PER. *Nuts* six or ten, pedicel'd, globular, bonyish, one-seeded.SEEDS *Nucleuses* solitary, globular.

REC. common, in the middle of the calyx, woolly.

## XIII.

# XIII. ONE BROTHERHOOD. (*Monadelphia.*)

1134. JUNIPERUS. \* *Tournef.* 361. *Sabina Boerb.*  
2. p. 207. *Cedrus Tournef.* 361.  
*Juniper. Cedar. Savin.*

## \* Males.

CAL. *Ament* conic, consisting of a common rachis, to which three opposite flowers are set in triple opposition, a tenth terminating the ament: each flower has for its base  
*A Scale* broad, short, incumbent, affixed to the column by a pedicel.

COR. none.

STAM. *Filaments* (in the terminal floret) three, awl'd, coalesced below in one body; (in the lateral florets scarcely manifest.) *Anthers* three, distinct in the terminal floret, but adjoined to the calyx-scale in the lateral ones.

## \* Female.

CAL. *Perianth* three-parted, very small, adjoined to the germ, permanent.

COR. *Petals* three, permanent, rigid, acute.

PIST. *Germ* beneath. *Styles* three, simple. *Stigmas* simple.

PER. *Berry* fleshy, roundish, marked on the lower part with three opposite tubercles (from the concreted calyx) and those obscure, navel'd at the top with three toothlets (before petals).

SEEDS three *bonelets*, convex on one side, angular on the other, oblong.

1135. TAXUS. \* *Tournef.* 362. *Yew.*\* *Male.*

CAL. none: except the bud similar to a four-leaved Perianth.

COR. none.

STAM. *Filaments* numerous, coalesced below in a column longer than the bud. *Anthers* depressed, obtuse on the margin, eight-cleft, gaping every way at the base (and the dust being drop'd) flat, targetted, remarkable for an eight-cleft margin.\* *Female.*

CAL. as in the male.

COR. none.

PIST. *Germ* egg-pointed. *Style* none. *Stigma* obtuse.PER. *Berry* from the receptacle elongated into a cup globular, succulent, gaping at the top, colour'd, at length wasting from dryness, evanescent.

SEED one, egg-oblong, prominent at the top out of the berry.

OBS. *The berry, strictly speaking, ought not to be call'd a pericarp. This species of Berry is remarkable, nor does a similar one occur, except that of Gualteria.*1136. ÉPHEDRA. \* *Tournef.* 477. *Shrub-Horse-tail.*\* *Male.*CAL. *Ament* composed of *scales* one-flower'd, few, roundish, concave, the length of the perianth.*Proper Perianth* one-leaved, half-twocleft, roundish, inflated, small, compressed: the *divisions* obtuse.

COR. none.

STAM. *Filaments* seven, coalesced in a column awl'd, divided at the top, longer than the calyx. *Anthers* roundish, turned outward, of which four are inferior; the other three superior.\* *Female.*CAL. *Perianth* five fold, one placed upon the other, with alternate divisions, in an egg'd form: *each* one-leaved, somewhat egg'd, two-parted; the *exterior ones* less.

COR. none.

PIST. *Germ*s two, egg'd, the size of the last perianth, on which it is placed. *Styles* simple, thread-form, short. *Stigmas* simple.PER. none. *Calyx scales* all thickened, succulent, constituting a divided berry.

SEEDS two, egg-acute, convex on one side, flat on the other, compressed by the calyx every where covering.

## 1138. CIS-

1138. CISSAMPELOS. † *Caapeba Plum.* 29.\* *Male.*

CAL. none, unless you so name the corol.

COR. *Petals* four, egg'd, flat, expanding.*Nectary* the wheel'd, membranous disk of the flower.STAM. *Filaments* four, very small, coalesced. *Anthers*. broad, flat.\* *Female.*

CAL. none, except the Bracte.

COR. none.

*Nectary* the lateral membranous margin of the germ, dilated outward.PIST. *Germ* roundish. *Styles* three. *Stigmas* three, erect, acute.PER. *Berry* globular, one-cell'd.

SEEDS solitary, wrinkled, subcompress'd.

838. NAPCEA. \* *Clayt.*\* *Male.*CAL. *Perianth* bell'd, five-cleft, columnar, permanent.COR. *Petals* five, oblong, concave, spreading, connected with oblong claws.STAM. *Filaments* many, capillary, middle size, conjoined in a column. *Anthers* roundish, compress'd.PIST. *Germ* conic, minute. *Style* cylindric, ten-cleft, capillary. *Stigmas* none.

PER. abortive.

\* *Female* on a distinct individual.

CAL. as in the male.

COR. as in the male.

STAM. *Filaments* as in the male, but shorter. *Anthers* small, sterile.PIST. *Germ* conic. *Style* as in the male, longer than the stamens. *Stigmas* obtuse.PER. *Capsules* ten, converging into an egg'd form, acutish, awnless.

SEEDS solitary, kidney-form.

OBS. N. hermaphrodita (*hermaphrodite*) was a male, a female having not yet been seen.

1137. ADÉLIA. † *Bernardia Brown.*

\* *Male.*

CAL. *Perianth* one-leaved, five-parted: the *leaflets* subnanced, concave.

COR. none.

STAM. *Filaments* many, capillary, the length of the calyx, conjoined at the base in a cylinder. *Anthers* roundish.

\* *Female.*

CAL. *Perianth* five-leaved: the *leaflets* subnanced, concave, permanent.

COR. none.

PIST. *Germ* roundish. *Styles* three, short, divaricated. *Stigmas* lacerated.

PER. *Capsule* three-grained, roundish, three-cell'd.

SEEDS solitary, roundish.

OBS. *The Calyx of the Male is three-parted, and of the Female five-parted. Syst. Veg. 751.*

## XIV. CONFEDERATE MALES.

(Syngenésia.)

1139. RÚSCUS. \* *Tournef.* 15. *Dill. elth.* 250.  
251. *Knee-Holly. Butcher's-broom.*

\* *Male.*

CAL. *Perianth* six-leaved, erect-expanding: the *leaflets* egg'd, convex, reflected on the lateral margin.

COR. *Petals* none, unless you so name the alternate calyx-leaves.

*Nectary* central, egg'd, the size of the calyx, inflated, erect, perforated at the top.

STAM. *Filaments* none. *Anthers* three, expanding, sitting on the top of the nectary itself, coalesced at the base.

\* *Female.*

CAL. *Perianth* as in the male.

COR. *Petals* as in the male.

*Nectary* as in the male.

PIST. *Germ* oblong-egg'd, concealed within the nectary. *Style* cylindric, the length of the nectary. *Stigma* obtuse, prominent through the mouth of the nectary.

PER. *Berry* globular, three-cell'd.

SEEDS two, globular.

OBS. *There is a species with hermaphrodite flowers, where the calyx only is globular with a six-cleft mouth.*

*R. racemosus (racemed)* is furnished with hermaphrodite flowers. In these and the allied genera, (*Smilax, Rajania, Tamus, &c.*) all the seeds seldom come to maturity: one commonly increasing, suffocates the rest.

# XV. F E M I N I N E M A L E S. (*Gynandria.*)

## 1140. CLUTIA. \* *Boerb.*

### \* *Male.*

CAL. *Perianth* five-leaved, the size of the corol: the *leaflets* egg'd, obtuse, concave, expanding.

COR. *Petals* five, most expanding, hearted: the claws flat, shorter than the calyx.

*Exterior Nectaries* five, three-parted, oblong, expanding, the length of the claws of the petals, placed in an orb within the petals.

*Interior Nectaries* five, within the aforesaid nectaries, the form of a gland, small, melliferous at the top.

STAM. *Filaments* five, placed in the middle of the style, remote from the corol, expanding horizontally. *Anthers* roundish, versatile.

PIST. *Germ* none. *Style* cylindric, lop'd, very long, stamen-bearing in the middle.

### \* *Female.*

CAL. *Perianth* as in the male, permanent.

COR. *Petals* as in the male, permanent.

*Exterior Nectaries* five, twin, roundish, the size and situation of the male.

*Interior Nectaries* none.

PIST. *Germ* roundish. *Styles* three, two-cleft, reflected, the length of the corol. *Stigmas* obtuse.

PER. *Capsule* globular, six-furrow'd, rugged. three-cell'd.

SEEDS solitary, roundish, glossy, appendaged at the top.

OBS. *There is a ten-male and androgynous species.* R.

CLASS

## CLASS XXIII.

## POLYGAMY.

(Polygamia.)

POLYGAMY is, when besides the hermaphrodite flower, another flower is produced in the same species different in sex.

OBS. It is therefore necessary, that the hermaphrodite flower be always present; but the other, which constitutes Polygamy, may be either male or female or both.

The hermaphrodite flower commonly fails in one sex, whence the male or female flower becomes necessary.

The following modes of Polygamy are possible.

1. in the class One-house by Hermaphrodites, as *Musa*.  
by Males. *Veratrum*, *Valantia Ophioxylon*, *Celtis*, *Acer*.  
by Females. *Parietaria*, *Atriplex*.
2. in the class Two-houses by Hermaphrodites.  
by Males. *Chamærops*, *Traxinus*,  
*Diospyros*, *Nyssa*, *Panax*,  
*Arctopus*.  
by Females. *Rhodiola*, some species  
of *Gnaphalium*, *Rumex alpinus*, (alpine):
3. in the class Three-houses by Males & Females. *Ficus*, *Ceratonia*.

Since there can be no plants of Three-houses or Many-houses without Polygamy, it would be neither proper or worth while to constitute a distinct Class on that account.

Perhaps more genera might have been arranged in this Class, if I could have examined more living plants, e. gr. *Ilex* Mill. Gerard. *Æsculus* D. v. Royen. *Laurus* Mill. *Rhamnus*, *Mammea*, *Callophyllum*, *Rhus*. Jacq.

## P O L Y G A M Y.

*(Polygamia.)*

## I. O N E H O U S E.

*(Monoeca.)*

1141 Músa.  
 1144 Verátrum.  
 1333 Spínifex.  
 1145 Andropógon.  
 1146 Hólcus.  
 1147 Aplúda.  
 1148 Íschæmum.  
 1149 Cénchrus.  
 1150 Ægilops.  
 1334 Manifúris.  
 1151 Valántia.  
 1152 Parietária.  
 1153 Átriplex.  
 1283 Terminália.  
 160 Brabéium.  
 1154 Clúfia.  
 1142 Ophióxylum.  
 1155 Ácer.  
 1143 Céltis.  
 1157 Gouánia.

Solándra.  
 1332 Hérmás.  
 1158 Mimósa.

## II. TWO HOUSES.

*(Dioecia.)*

1159 Gledítfia.  
 1160 Fráxinus.  
 1161 Dióspyros.  
 1163 Nýssa.  
 1164 Anthospérmum.  
 1336 Stílbe.  
 1165 Árctopus.  
 1162 Pisónia.  
 1166 Pánax.  
 1335 Chrysitrix.

## III. THREE HOUSES.

*(Trioecia.)*

1167 Ceratónia.  
 1168 Fícus.

## I. O N E H O U S E.

(Monoecia.)

1141. MUSA. \* *Musf. cliff. 2. Plum. 34. Garc. A. A. 415. t. 2. Plantain-tree.*

\* *Hermaphrodite Female flowers* more towards the base of the simple *Spadix*, separate in alternate *Spathes*.

CAL. Partial *spathe* egg-oblong, flat-concave, large, many-flower'd.

COR. unequal, grinning; the petal constituting the upper lip, but the nectary the under lip.

*Petal* erect, tongued, lop'd, five-tooth'd, converging before at the base.

*Nectary* one-leaved, hearted, boated, compress'd, pointed, expanding outward, shorter than the petal, inserted within the sinus of the petal.

STAM. *Filaments* six, awl'd, of which *five* are within the petal, erect, shorter by half than the petal: but the *sixth* is within the nectary, expanding, twice as long as the rest. *Anther* on the sixth filament linear, adjoined from the middle of the filament to the top; there are no anthers on the rest.

PIST. *Germ* within the receptacle of the flower, of all the largest, obtusely three-sided, very long. *Style* cylindric, erect, the length of the petal. *Stigma* headed, roundish, obscurely six-cleft.

PER. *Berry* fleshy, cover'd with an husk, very long, obscurely three-sided, the pulp divided three ways without partitions, contracted at each apex, gibbous on one side.

SEEDS - - -

\* *Hermaphrodite Male flowers* on the same *spadix* above the female flowers, separate in numerous many-flower'd alternate *Spathes*.

CAL. *Spathe* as in the female.

COR. *Petal* as in the female.

*Nectary* as in the female.

STAM. *Filaments* as in the female: but all equal, erect. *Anthers* as in the female, but only on those *five* filaments placed within the petal: rarely any on the *sixth*.

PIST. *Germ* as in the female, but less. *Style* and *Stigma* as in the female, but less, more obscure.

PER. abortive.

SEED.

OBS. *M. Troglodytarum* has a many-seeded fruit. R.

1144. VE-

1144. VERÁTRUM. \* *Tournef.* 145. *White Hellebore.*

\* *Hermaphrodite.*

CAL. none, unless you so name the corol.

COR. *Petals* six, oblong, lanced, thinner on the margin, saw'd, permanent.

STAM. *Filaments* six, awl'd, pressing the germs, more expanding at the tops, shorter by half than the corol. *Anthers* quadrangular.

PIST. *Germ*s three, erect, oblong, ending in *Styles* scarcely manifest. *Stigmas* simple, spreading.

PER. *Capsules* three, oblong, erect, compress'd, one-cell'd, one-valved, gaping inward.

SEEDS many, oblong, obtuser at one extremity, compress'd, membranous.

\* *Male* flower on the same plant, below the female ones.

CAL. as in the male.

COR. as in the male.

STAM. as in the male.

PIST. a rudiment obscure, useless.

1333. SPÍNIFEX. †

\* *Hermaphrodite* & *Male* flowers in the same glume of the calyx.

CAL. *Glume* two-valved, two-flower'd: the valvelets parallel with the rachis, oblong, obtuse, convolute, shorter than the corol: the one floret hermaphrodite, the other male.

COR. *Glume* of the hermaphrodite two-valved, longer than the calyx: the valvelets lanced, awnless, convolute: the interior one narrower.

*Nectary* with valvelets two, linear, membranous, loose, diaphanous, shorter than the glume.

*Glume* of the male as in the hermaphrodite.

STAM. *Filaments* in both three, linear, middle-size. *Anthers* linear, protruded.

PIST. *Germ* of the hermaphrodite oblong. *Styles* two, linear, middle-sized. *Stigmas* simple.

PER. Corol unchanged, growing to it.

SEED oblong.

REC. *Spike* two-rank'd: with parallel florets.

OBS. It differs from *Lolium* in the two valvelets of the calyx; from *Triticum* in their not being transverse.

1145. ANDROPÓGON. † *Roy. lugdb.* 52. *Man's-beard.*

\* *Hermaphrodite* flowers sessile.

CAL. *Glume* one-flower'd, two-valved, oblong, obtuse, awnless: the interior *valvelet* narrower, slenderer, girt at the base with wool, two-parted.

COR. *Glume* two-valved, thinner than the calyx, less: with an *awn* from the base of the greater *valvelet*; long, twisted, recurved.

STAM. *Filaments* three, capillary, the length of the flower. *Anthers* oblong, two-forked, incumbent.

PIST. *Germ* oblong. *Styles* two, capillary, coalesced. *Stigmas* villous.

PER. none. *Glumes* of the corol and calyx obvolving, including the seed.

SEED one, solitary, oblong, covered, armed with the awn of the corol.

\* *Male* flowers peduncled.

CAL. as in the hermaphrodite.

COR. as in the hermaphrodite, but without an awn.

STAM. as in the hermaphrodite.

1146. HÓLCUS. \* *Sorgum Mich.* *Indian Millet.*

\* *Hermaphrodite* flower.

CAL. *Glume* mostly two-flower'd, two-valved, rigid, awnless: the exterior *valvelet* egg'd, concave, large, embracing the interior one oblong, convolute on the sides.

COR. *Glume* two-valved, tender, villous, less than the calyx: the exterior *valvelet* often with an *awn* rigid, and longer than the calyx: but the interior one awnless, very small.

STAM. *Filaments* three, capillary. *Anthers* oblong.

PIST. *Germ* top-shape. *Styles* two, capillary. *Stigmas* pencil-form.

PER. none. The *Corol* involves, covers, grows to the seed.

SEEDS solitary, egg'd, covered.

\* *Male* flower less than the female one.

CAL. *Glume* two-valved: the *valvelets* egg-lanced, convolute, awnless, acute.

COR. none, unless you so name the calyx.

STAM. *Filaments* three, capillary. *Anthers* oblong.

1147. AP-

## 1147. APLÚDA.

CAL. *Glume* common, two-valved, end-bitten, containing a *female* sessile floret, and two *male ones* on a common pedicel.

\* *Female.*

CAL. none.

COR. *Glume* two-valved: the exterior valvelet inverse-egg'd, retuse, obvolv'd in the interior one, lanced.

PIST. *Germ* inverse-egg'd. *Style* thread-form, the length of the corol, pubescent. *Stigma* simple.

PER. *Glume* adhering.

SEED one, oblong.

\* *Males* two on a pedicel the length of the calyx.

CAL. none.

COR. *Glume* two-valved, less; the valvelets egg-oblong: one less.

STAM. *Filaments* three, capillary. *Anthers* oblong, two-lobed.

## 1148. ISCHÆMUM. †

CAL. *Glume* two-flower'd, two-valved, rigid, pointed, placed transversely: the *valvelets* pointed, polish'd, erect; with one flower male, the other hermaphrodite.

COR. *Glumes* two, two-valved: the valvelets less, acuter, membranous.

STAM. *Filaments* three, capillary. *Anthers* oblong.

PIST. (in the hermaphrodite floret) *Germ* oblong. *Styles* two, capillary. *Stigmas* thick, feathery.

PER. none. *Calyx* and *Corol* unchanged.

SEED (in the hermaphrodite floret) oblong, linear, convex on one side.

## 1149. CÉN-

1149. CÉNCHRUS. \* *Panicastrella Mich.* 31.

CAL. *Involucres* many, jagg'd, hedge-hog'd, collected in an head : (each sessile one including three calyxes), two-flower'd.

*Perianth* a *Glume* two-valved, lanced, concave, pointed, two-flower'd, shorter than the corol.

COR. one male, another hermaphrodite.

*Proper* each two-valved : the valvelets lanced, pointed, concave, awnless : the interior one less.

STAM. on each stamen *Filaments* three, capillary, the length of the corollet. *Anthers* arrow'd.

PIST. *Germ* of the hermaphrodite roundish. *Style* thread-form, the length of the stamens. *Stigmas* two, oblong, hairy, expanding.

PER. none.

SEED roundish.

OBS. *There is a species with all the flowers hermaphrodite.* R.

## 1150. ÆGILOPS.

\* *Hermaphrodite* flowers two, lateral.

CAL. *Glume* two-valved, three-flower'd, very large : the *valvelets* egg'd, lop'd, striated, with various awns.

COR. *Glume* two-valved : the *exterior valvelet* egg'd, terminated by a double or triple awn. The *interior valvelet* lanced, erect, awnless, longitudinally inflected on the margin.

STAM. *Filaments* three, capillary. *Anthers* oblong.

PIST. *Germ* top-shape. *Styles* two, reflected. *Stigmas* hairy.

PER. none. The *interior valvelet* of the corol grows to the feed, nor does it gape.

SEED oblong.

\* *Male* flower intermediate.

CAL. that of the *Hermaphrodites* common.

COR. as in the *Hermaphrodites*.

STAM. as in the *Hermaphrodites*.

PIST. similar to that of the *Hermaphrodite*, often abortive.

## 1334. MANISURIS. †

\* *Hermaphrodite* flowers in a spike.

CAL. *Glume* two-valved, one-flower'd: the *exterior valvelet* membranous, flat, roundish, end-nick'd on the sides and at the top, concave within to the disk, appress'd to the opposite one.

The *interior valvelet* less, egg'd, concave, appress'd to the scape.

COR. *Glume* two-valved, membranous, less than the calyx, included.

STAM. *Filaments* three?

PIST. *Germ* egg'd. *Style* two-cleft. *Stigmas* simple.

PER. *Calyx* unchanged.

SEED egg'd.

\* *Male* flowers on the same spike.

CAL. *Glume* two-valved, one-flower'd, columnarish: the *valvelets* striated, parched on the lateral top, parallel.

COR. *Glume* two-valved, included.

STAM. *Filaments* three.

REC. *Spike* imbricated with *hermaphrodite* florets, the dorsal ones appress'd: The *Males* ventral, more protruded.

1151. VALANTIA. \* *Tournef. A. G. 1706. t. 3.*  
*Dill. gen. 8. Mich. 7. Cruciata*  
*Tournef. 39. Cross-wort.*

\* *Hermaphrodite* flower solitary.

CAL. scarcely any, in whose place is the germ.

COR. one-petal'd, flat, four-parted: the *divisions* egg'd, acute.

STAM. *Filaments* four, the length of the corol. *Anthers* small.

PIST. *Germ* large, beneath. *Style* the length of the *stamens*, half-two-cleft. *Stigmas* headed.

PER. *leathery*, compress'd, reflected.

SEED one, globular.

\* *Male* flowers standing solitary on each side the hermaphrodite.

CAL. scarcely any, in whose place is the germ.

COR. one-petal'd, flat, three-parted, or four-parted: the *divisions* egg'd, acute.

STAM. *Filaments* four or three, the length of the corol. *Anthers* small.

PIST. *Germ* small, beneath. *Style* and *Stigmas* obscure, and scarcely discernible.

PER. abortive: but a slender oblong *rudiment* adheres to the side of the hermaphrodite.

SEED none.

Obs. The *Male* flowers are three-cleft in *V. muralis* (wall) and *Aparine*; four-cleft in *articulata* (jointed) and *cruciata* (cross-wise).

1152. PA-

1152. PARIETARIA. \* *Tournef.* 289. *Pellitory*:

\* *Hermaphrodite* flowers two are contained in a flat, six-leaved *Involucre*: the two opposite and exterior *leaflets* larger.

CAL. *Perianth* one leaved, four-cleft, flat, obtuse, the size of the halved involucre.

COR. none: unless you so name the calyx.

STAM. *Filaments* four, awl'd, longer than the flowering perianth, and expanding it, permanent. *Anthers* twin.

PIST. *Germ* egg'd. *Style* thread-form, colour'd. *Stigma* pencil-form, headed.

PER. none. *Perianth* elongated, larger, bell'd, the mouth closed with the converging divisions.

SEED one, egg'd.

\* One *Female* flower between two hermaphrodite ones, within the involucre.

CAL. as of the hermaphrodite.

COR. none.

PIST. as of the hermaphrodite.

PER. none. *Perianth* slender, involving the fruit.

SEED as in the hermaphrodite.

1153. *ATRIPLEX*. \* *Tournef.* 286. *Orach.*\* *Hermaphrodite* flower.CAL. *Perianth* five-leaved, concave, permanent: the *divisions* egg'd, concave, membranous on the margin.

COR. none.

STAM. *Filaments* five, awl'd, opposite the leaves of the calyx, and longer than them. *Anthers* roundish, twin.PIST. *Germ* orbicular. *Style* two-parted, short. *Stigmas* reflected.PER. none. *Calyx* closed, five-corner'd, five-angled, with compress'd deciduous *angles*.

SEED one, orbicular, depress'd.

\* *Female* flower on the same plant.CAL. *Perianth* two-leaved: the *leaflets* flat, erect, egg'd, acute, large, compress'd.

COR. none.

PIST. *Germ* compress'd, *Style* two-parted. *Stigmas* reflected, acute,PER. none. The valves of the *Calyx* very large, hearted, including the seed between them.

SEED one, orbicular, compress'd.

OBS. *Atriplex* without a female flower had been *Chenopodium* and *Chenopodium* with such a female flower had been *Atriplex*; therefore there is the greatest affinity between *Chenopodium* and *Atriplex*.1283. *TERMINALIA*.\* *The Male* flowers are the superior ones of the raceme.CAL. *Perianth* one-leaved, five-parted, star'd, acute, with an hispid bottom.

COR. none.

STAM. *Filaments* ten, awl'd, the length of the calyx. *Anthers* roundish, the interior ones two-cleft.\* *Hermaphrodite* flowers one or two, the inferior ones of the raceme.

CAL. as in the male.

COR. none.

STAM. as in the males.

PIST. *Germ* beneath, cone-awl'd. *Style* simple, awl'd. *Stigma* acutish.PER. *Drupe* oval, boat-form: the superior side depress'd, two-furrow'd.SEED a *Nut* oval-oblong, polish'd, obtuse at the base.

160. BRABÉIUM. † *ex novis observationibus f.*  
*Mutis. Brabyla. Mant. 137.*  
*African Almond.*

\* *Male flowers on the same tree.*

CAL. *Ament* with scales egg'd, obtuse, three-flower'd.

COR. funnel-form, four-parted: the *divisions* oblong.

STAM. *Filaments* four, inserted in the throat, middle-sized. *Anthers* oblong, growing to the interior side of the filaments, the top excepted.

PIST. *Germ* none. *Style* thread-form, middle-sized. *Stigmas* two, erect.

\* *Hermaphrodites.*

CAL. none. (The Scale of the *Ament*. *Syst. Veg. ed. Murray 764.*)

COR. *Petals* four, linear, obtuse, erect below, forming a tube, revolute above, deciduous. (COR. four-parted. *Syst. Veg. ed. Murray 764.*)

STAM. *Filaments* four, capillary, inserted into the claws of the petal, scarcely the length of the corol. *Anthers* small, gaping on the sides.

PIST. *Germ* very small, villous. *Style* thread-form, the length of the stamens, rather thicker above. *Stigma* simple.

PER. *Drupe* drier, roundish, villous.

SEED a *Nut* globular.

OBS. Brabyla has a five-cleft corol with five stamens.

1154. CLUSIA. † *Plum.* 10. *Jacq. amer.* 270.  
*Balsam-tree.*

CAL. *Perianth* four, five or six-leaved, imbricated: the *leaflets* concave, permanent, the interior ones gradually less.

COR. *Petals* four, five, six, roundish, expanding, concave, large.

STAM. *Filaments* many, simple; shorter than the corol. *Anthers* simple, growing to the side of the top.

PIST. *Germ* egg-oblong. *Style* none. *Stigma* star'd, flat, obtuse, permanent,

PER. *Capsule* egg'd, plough'd up with furrows, cell'd, the *valves* then gaping raywise.

SEEDS numerous, egg'd, cover'd with pulp, affixed to a columnar, angular *Receptacle*.

OBS. *The number in regard to the fruit differs from four to twelve, the same proportion is observed in the stigma, valvelets, cells, &c. Some flowers are sterile from the males, others from the females. In the feminine flowers a nectary is made from the coalesced anthers, including the germ.*

1142. OPHIOXYLUM. † *Snake-wood.*

\* *Hermaphrodite flowers.*

CAL. *Perianth* five-cleft, acute, erect, very small.

COR. one-petal'd, funnel-form. *Tube* long, thread-form, thickened in the middle. *Border* five-parted, spreading, without a nectary.

STAM. *Filaments* five, very short, in the middle of the tube. *Anthers* pointed.

PIST. *Germ* roundish. *Style* thread-form, the length of the stamens. *Stigma* headed.

PER. *Berry* twin, two-cell'd.

SEEDS solitary, roundish.

\* *Male flowers on the same plant.*

CAL. as in the hermaphrodites (two-cleft. *Syst. Veg.* 765.)

COR. one-petal'd, funnel-form. *Tube* long. *Border* five-cleft.

*Nectary* in the mouth of the corol, cylindric, most intire.

STAM. *Filaments* two, very short. *Anthers* pointed, converging within the nectary.

1155. *ÁCER*. \* *Tournef.* 386. *Maple*.\* *Hermaphrodites*.

CAL. *Perianth* one-leaved, five-cleft, acute, colour'd, flat and intire at the base, permanent.

COR. *Petals* five, egg'd, broader outward, obtuse, scarcely larger than the calyx, expanding.

STAM. *Filaments* eight, awl'd, short. *Anthers* simple, the *Dust* cross-form.

PIST. *Germ* compress'd, immersed in the convex, perforated, large *Receptacle*. *Style* thread-form, growing higher daily. *Stigmas* two, pointed, slender, reflected.

PER. *Capsules* the number of the stigmas (2 or 3) coalesced at the base, roundish, compress'd, each terminated with a very large membranous wing.

SEEDS solitary, roundish.

\* *Male flowers*.

CAL. as in the Hermaphrodite.

COR. as in the Hermaphrodite.

STAM. as in the Hermaphrodite.

PIST. *Germ* none. *Style* none. *Stigma* two-cleft.

OBS. On the first unfolding of the flower the Stigma only appears, a few days after the Style.

In *A. Pseudo-Platanus* (*mock-Plane*) the corol is scarcely distinguished from the calyx, and the stamens are long.

*A. rubrum* (red) is two-house.

The Hermaphrodite flowers on the same umbel are often of two kinds; the inferior Hermaphrodite ones are feminine, of which the anthers do not burst but the pistil by and by grows into a fruit; the superior Hermaphrodite ones are masculine, of which the anthers scatter their dust, but the pistils do not increase, but fall off.

1143. CÉLTIS. \* *Tournef.* 383. *Nettle-tree.*

\* *Hermaphrodite* flowers solitary, superior.

CAL. *Perianth* one-leaved, five-parted: the *divisions* egg'd expand'd, withering.

COR. none.

STAM. *Filaments* five, very short, concealed at first by the anthers, longer when the dust is scatter'd. *Anthers* oblong, thickish, quadrangular, four-furrow'd.

PIST. *Germ* egg'd, pointed, the length of the calyx. *Styles* two, expanding, variously inflected, awl'd, every where pubescent, very long. *Stigmas* simple.

PER. *Drupe* globular, one-cell'd.

SEED a *Nut* roundish.

\* *Male* flowers on the same plant, inferior.

CAL. *Perianth* six-parted, the rest as in the hermaphrodites.

COR. none.

STAM. six, the rest as in the hermaphrodites.

1157. GOVANIA. \* *Jacq. amer.* 263.

\* *Hermaphrodites.*

CAL. *Perianth* one-leaved, above, funnel-form, five-cleft: the *Tube* permanent; the *divisions* egg'd, acute, expanding, deciduous.

COR. none.

STAM. *Filaments* five, awl'd, the length of the calyx, and alternating with it. *Anthers* roundish, incumbent, calyptred with a cowl'd elastic calyptre.

PIST. *Germ* beneath. *Style* awl'd, half-threecleft. *Stigmas* obtuse.

PER. *Fruit* dry, three-sided, three-partible into as many seeds.

SEEDS The three parts of the *Fruit* roundish, rather three-sided, two-wing'd.

\* *Males* on the same plant.

CAL. as in the hermaphrodite.

COR. as in the hermaphrodite.

STAM. as in the hermaphrodite.

PIST. *Germ* none. *Style* as in the hermaphrodite. *Stigmas* obscure, (none).

## 1332. HÉRMAS. †

\* *Hermaphrodite* umbel terminal.

CAL. *Universal Umbel* many-ray'd, hemispheric.

*Partial* one many-ray'd: the central ray flower-bearing; the rest without any floret.

*Universal Involucre* many-leaved, lanced, short, permanent.

*Partial* one mostly two-leaved, lanced, the length of the umbellet.

*Proper Perianth* obscure, five-tooth'd.

COR. universal flosculous.

Of the *proper one*, *Petals* five, oblong-egg'd, erect, flat, intire, equal.

STAM. *Filaments* five, thread-form, shorter than the petals. *Anthers* steril, oblong.

PIST. *Germ* beneath, compress'd, larger than the corol. *Styles* two, thread-form, erect, longer than the corol. *Stigmas* obtuse.

PER. none. *Fruit* orbicular, end-nick'd at the base, gaping at the angles.

SEEDS two, heart-orbed, flat-compress'd, margined, marked with a single longitudinal elevated stria.

\* *Male* umbels lateral, later, of the same plant, (as communicated by D. Burmann).

CAL. *Universal Umbel* as of the *Hermaphrodite*.

*Partial* one many-ray'd: the rays all flower-bearing.

*Involucre* as in the *Hermaphrodites*.

*Perianth* nearly none.

COR. as in the *Hermaphrodites*.

STAM. *Filaments* five, thread-form, the length of the corollet. *Anthers* dust-bearing, oval, nearly twin.

1158. MIMÓSA. \* *Tournef.* 375. *Acacia Tournef.*  
375. *Inga Plum.* 19. *Sensitive*  
*Plant. Acacia.*

CAL. *Perianth* one-leaved, five-tooth'd, very small.

COR. *Petal* one, funnel-form, half-fivecleft, small.

STAM. *Filaments* capillary, very long. *Anthers* incumbent.

PIST. *Germ* oblong. *Style* thread-form, shorter than the *stamens*.  
*Stigma* lop'd.

PER. *Legume* long, the partitions transverse, numerous.

SEEDS many, roundish, various in form.

OBS. *Many of the male flowers fall off; there are some feminine, others*  
*hermaphrodite on various plants.*

Of *Mimosa* T. *the legume is jointed: the leaves as if sensitive.*

Of *Acacia* T. *the legume is cylindric: the leaves not moving from*  
*the touch.*

Of *Inga* Pl. *the legume is fleshy.*

*No part of the fructification is constant in this genus.*

*The Calyx generally five-tooth'd, is in some three-cleft.*

*The Corol generally one-petal'd, is in some five-petal'd; in others*  
*none.*

*The Stamens in some many, in others ten, in some five, in others*  
*four; in some one brotherhood; in others antherless.*

*The Pericarp a legume, but in some fleshy; in others membranous;*  
*in some wing'd; in some jointed; in others four-valved.*

*The Seeds are different in form in different species.*

## II. TWO HOUSES.

(Dioecia.)

1159. GLEDITSIA. Clayton. Melilobus Mitch.  
XV. Three-thorn'd Acacia.

\* *Male Ament* long, compact, cylindric.

CAL. Proper *Perianth* three-leaved: the *leaflets* spreading, small, acute.

COR. *Petals* three, roundish, sessile, spreading, calyx-form.

*Nectary* top-shape, to the margin of which the other parts of the fructification grow.

STAM. *Filaments* six, thread-form, longer than the corol. *Anthers* incumbent, oblong, compress'd, twin.

\* *Hermaphrodite* on the same ament with the male flowers, and mostly terminal.

CAL. *Perianth* four-cleft, as in the males.

COR. *Petals* four, as in the males.

*Nectary* as in the males.

STAM. as in the males.

PIST. as in the female.

PER. as in the female.

\* *Female* a loose ament, on a different plant.

CAL. Proper *Perianth* as in the male, but five-leaved.

COR. *Petals* five, long, acute, erect-expanding.

*Nectaries* two, short, like filaments.

PIST. *Germ* broad, compress'd, longer than the corol. *Style* short, reflected. *Stigma* thick, the length of the style, to which it grows, pubescent above.

PER. *Legume* very large, broad, most compress'd, with numerous transverse partitions: the isthmuses replete with pulp.

SEEDS solitary, roundish, hard, glossy.

1160. FRÁ-

1160. FRÁXINUS. \* *Tournef.* 343. *Mich.* 107.  
*Ornus Mich.* 103. *Asb.*

\* *Hermaphrodite.*

CAL. none, but *Perianth* one-leaved, four-parted, erect, acute, small.

COR. none, or *Petals* four, linear, long, acute, erect.

STAM. *Filaments* two, erect, much shorter than the corol. *Anthers* erect, oblong, four-furrow'd.

PIST. *Germ* egg'd, compress'd. *Style* cylindric, erect. *Stigma* thickish, two-cleft.

PER. none, except the crust of the seed.

SEED lanced, flat-membraned, one-cell'd.

\* *Female.*

CAL. as in the hermaphrodite.

COR. as in the hermaphrodite.

PIST. as in the hermaphrodite.

PER. as in the hermaphrodite.

SEED as in the hermaphrodite.

OBS. F. *Ornus P.* having a corol and a calyx, is always a pure hermaphrodite, without a male.

Of F. *excelsior* (*loftier*) the female, often bears interspersed hermaphrodite flowers, and the hermaphrodite one feminine flowers. a. this species is destitute of both corol and calyx.

1161. DIÓSPYROS. \* *Guaiacana Tournef.* 371.  
*Indian Date-Plumb.*\* *Hermaphrodite* feminine.CAL. *Perianth* one-leaved, four-cleft, large, obtuse, permanent.COR. one-petal'd, pitcher'd, larger, four-cleft: the *divisions* acute, expanding.STAM. *Filaments* eight, bristly, short, mostly inserted into the receptacle. *Anthers* oblong, barren.PIST. *Germ* roundish. *Style* one, half-fourcleft, permanent, longer than the stamens. *Stigmas* obtuse, two-cleft.PER. *Berry* globular, large, eight-cell'd, sitting on a very large expanding calyx.

SEEDS solitary, roundish, compress'd, very hard.

\* *Male* on a separate plant.CAL. *Perianth* one-leaved, four-cleft, acute, erect, small.COR. one-petal'd, pitcher'd, leathery, four-corner'd, four-cleft: the *divisions* roundish, revolute.STAM. *Filaments* eight, very short, inserted into the receptacle. *Anthers* double, long, acute: the interior ones shorter.PIST. the rudiment of a *Germ*.OBS. In *D. virginiana* (*virginian*) the *stamens* of the male are sixteen, of which eight are inferior. R.1163. NYSSA. † *Gronov. per Kalmium.* *Tupelo-tree.*\* *Male.*CAL. *Perianth* five-parted, expanding with a flat bottom.

COR. none.

STAM. *Filaments* ten, awl'd, shorter than the calyx. *Anthers* twin, the length of the filaments.\* *Hermaphrodite.*CAL. *Perianth* as in the male, sitting on the germ.

COR. none.

STAM. *Filaments* five, awl'd, erect. *Anthers* simple.PIST. *Germ* egg'd, beneath. *Style* awl'd, incurved, longer than the stamens. *Stigma* acute.PER. *Drupe*SEED a *Nut* oval, acute, plough'd up with longitudinal furrows, angular, irregular.

1164. AN-

1164. ANTHOSPERMUM. \* Tournefortia Pont.  
*epist.* 11. Amber-tree.

\* *Male.*

CAL. *Perianth* one-leaved, conic, four-cleft beyond the middle: the *divisions* egg-oblong, revolute, obtuse, rather colour'd.

COR. none: unless you so name the calyx.

STAM. *Filaments* four, capillary, erect, the length of the calyx, inserted into the receptacle. *Anthers* twin, oblong, four-corner'd, obtuse, erect.

\* *Androgynous* consisting of male and female flowers.

\* *Male* flowers as in the male described.

\* *Feminine.*

CAL. as in the male.

COR. as in the male.

PIST. *Germ* beneath, egg'd, four-corner'd. *Styles* two, recurved. *Stigmas* simple.

PER. - - -

SEED - - -

OBS. *I have not seen the Fruit of the female flower. I will insert the character of Pontedera.*

The flower is one-petal'd, funnel-form, sitting on the calyx with the mouth slightly gash'd.

The Calyx changes into a roundish, angular Fruit big with eight oblong seeds, and two connected ones, *whether the Author mistook the Calyx for the fruit, and the Anthers for the Seeds, or whether he had seen the real fruit, future inspection must determine*

1336. STÍLBE. † *D. Bergú.*

\* *Hermaphrodite.*

CAL. *exterior.* *Perianth* three-leaved (four exterior ones being removed): the *leaflets* lanced, broad-dagger'd.

*Interior.* *Perianth* one-leaved, five-tooth'd, cartilaginous, becomes indurated.

COR. one-petal'd, funnel-form: *Tube* the length of the calyx: *Border* five-parted: the divisions linear.

STAM. *Filaments* four, awl'd, sitting in the throat, longer. *Anthers* hearted, obtuse.

PIST. *Germ* above, egg'd. *Style* thread-form, the length of the *stamens*. *Stigma* acute.

PER. none. *The interior calyx* including, indurated, deciduous.

SEED one.

\* *Male* on a distinct individual.

CAL. *exterior* as in the Hermaphrodite.

*Interior* none.

COR. as in the Hermaphrodite, but the *Tube* membranous.

STAM. as in the Hermaphrodite.

PER. none.

SEED none.

1165. ARCTOPUS. † *Bear's-paw.*\* *Male.*CAL. *Universal Umbel* long, unequal.*Partial one* shorter, more copious.*Universal Involucre* five-leaved, short.*Partial one* five-leaved, the length of the umbellet.*Perianth* five-parted, very small.COR. *Universal* uniform.*Proper* with *Petals* five, intire, oblong.STAM. *Filaments* five, bristly, longer than the corol. *Anthems* simple.PIST. *Germ* none. *Styles* two, bristly, longer than the stamens.*Stigmas* simple.

PER. abortive.

\* *Female* on a separate plant.CAL. *Partial Umbel* with sessile florets.*Partial Involucre* one-leaved, four-parted, expanding, thorny on the margin, many-flower'd, very large.COR. *Proper of the Disk* masculine, many, as in the male.*Of the Ray* feminine, four, five-petal'd.STAM. in the males *of the disk* as in the male.PIST. in the females *Germ* awl'd, hispid, under the receptacle of the floret. *Styles* two, reflected, permanent. *Stigmas* simple.PER. none. *Involucre* converging with thorns.

SEEDS in the females solitary, hearted, pointed, bent outward, hispid above, two-cell'd, the size of the involucre.

1162. PISÓNIA. \* *Plum. gen. 11. Houst. Pentag-  
notheca Vaill. A. G. Jacq. amer.  
274. Fingrigo.*

\* *Male.*

CAL. scarcely any.

COR. bell'd, five-cleft: the *divisions* acute, spreading.

STAM. *Filaments* five or six, awl'd. *Anthers* roundish, twin.

PIST. *Germ* oblong. *Style* short. *Stigma* pencil-form.

\* *Female.*

CAL. as in the male.

COR. as in the male.

PIST. *Germ* oblong. *Style* simple, cylindric, longer than the corol,  
erect. *Stigma* two-cleft.

PER. *Capful* oval, five-angled, five-valved, one-cell'd; or a *Berry*.

SEED one, smooth, oblong.

OBS. *P. aculeata* (prickly) consists of a feminine plant and a masculine her-  
maphrodite one with angular, capsular fruit.

*P. inermis* (unarmed) consists of an hermaphrodite plant, and a  
masculine hermaphrodite one: with berried fruit.

1166. PÁNAX. \* *Araliastrum Vaill. 6. Aurellana  
Lafit. Ninf Breyn. diss. Panacea  
Mitch. 26. Ginseng.*

\* *Hermaphrodite* on a separate plant.

CAL. *Umbel* simple, equal, crowded.

*Involucre* many-leaved, awl'd, very small, permanent.

*Perianth* proper, very small, five-tooth'd, permanent.

COR. *Universal* uniform. *Proper* with petals five, oblong, equal,  
recurved.

STAM. *Filaments* five, very short, falling off. *Anthers* simple.

PIST. *Germ* roundish, beneath. *Styles* two, small, erect. *Stigmas*  
simple.

PER. *Berry* hearted, navel'd, two-cell'd.

SEEDS solitary, hearted, acute, flat-convex.

\* *Male* flowers on a different plant.

CAL. *Umbel* simple, globular: the rays numerous, equal, colour'd.

*Involucre* with leaflets the number of the external rays, lanced,  
sessile.

*Perianth* top-shape, most intire, colour'd.

COR. *Petals* five, oblong, obtuse, narrow, reflected, sitting on the  
perianth.

STAM. *Filaments* five, thread-form, longer, inserted into the perianth.  
*Anthers* simple.

1335. CHRÝ-

## 1335. CHRYSITRIX. †

\* *Hermaphrodite* plant.CAL. *Glumes* two-valved, many, imbricated: the valvelets egg-oblong, close, cartilaginous, permanent.COR. *Chaffs* very numerous, collected in a fascicle, bristly, membranous, colour'd, shining, longer than the calyx, permanent.STAM. *Filaments* solitary between each chaff, capillary, the length of the chaffs. *Anthers* linear, growing over each filament (the top of the filament excepted).PIST. common *Germ* oblong, obtuse. *Style* thread-form, the length of the stamens. *Stigma* simple.

PER. - -

SEED - -

\* *Male* on a distinct individual.CAL. as of the *Hermaphrodite*.COR. as of the *Hermaphrodite*.STAM. as of the *Hermaphrodite*.

## III. THREE HOUSES.

(Trioëcia.)

1167. CERATÓNIA. \* *Siliqua* Tournef. 344.*Carob-tree. St. John's bread.*\* *Male*.CAL. *Perianth* five-parted, very large.

COR. none.

STAM. *Filaments* five, awl'd, very long, expanding. *Anthers* large, twin.*Female. Dill.*CAL. *Perianth* one-leaved, divided into five tubercles.

COR. none.

PIST. *Germ* lurking within a fleshy receptacle. *Style* long, thread-form. *Stigma* headed.PER. *Legume* very large, obtuse, compress'd, leathery, with many transverse partitions, the isthmuses replete with pulp.

SEEDS solitary, roundish, compress'd, hard, glossy.

\* *Hermaphrodite* ones on a distinct tree.

1168. FÍ-

1168. FICUS. \* *Tournef.* 420. *Hire A. G.* 1712.  
*t.* 15. *Pontb. auth.* 11. *f.* 10. *Caprificus Pont. ibid.* *Fig-tree.*

*Receptacle common top-shape, fleshy, concave, converging.*

Of this the internal surface is every where covered with florets; of which the exterior or those nearer the margin of the calyx are *Male*, fewer; the other inferior ones are *Feminine*, numerous.

\* *Male flower each sitting on a peduncle.*

CAL. *Proper Perianth* three-parted, erect: the *divisions* lanced, erect, equal.

COR. none.

STAM. *Filaments* three, bristly, the length of the calyx. *Anthers* twin.

PIST. *Rudiment* falling off, intorted.

\* *Female flower each sitting on a peduncle.*

CAL. *Proper Perianth* five-parted: the *divisions* lance-pointed, straight, subequal.

COR. none.

PIST. *Germ* oval, the size of the proper perianth. *Style* awl'd, inflected, coming out from the germ at the side of the top. *Stigmas* two, pointed, reflected: one shorter.

PER. none. *Calyx* oblique, containing the seed in its bosom, larger.

SEED one, roundish, compress'd.

OBS. *Caprificus comprehends male flowers only, within a common calyx on a distinct plant.*

*Erenofyce has some compound male-flowers, others feminine on a distinct plant.*

## CLASS XXIV.

## CLANDESTINE MARRIAGE.

(Cryptogamia.)

CLANDESTINE MARRIAGE contains those vegetables, whose fructifications seclude themselves from our sight, and have a structure different from others.

This Class contains the following ORDERS.

The 1st. commonly includes FERNS *back-bearing, leaf-seeded, S. capillary.*

The CALYX is a scale growing out of the leaf, gaping on one side, under which are peduncled globules.

The Globule is girt with an elastic ring, which breaks elastically, effusing the dust.

Since we know no certain method of dividing these plants by the fructification, we have disposed them in order from their situation under their covers.

The fructification of these plants is yet obscure, who have access to the living species of Trichomanes, should attentively examine them.

2. We have divided the MOSSES according to their anthers being calyptred, or not calyptred, on the same or a separate vegetable, with feminine florets aggregate or solitary, depending chiefly on the principles of Dillenius, who has arranged this family.

The Seeds of Mosses are naked corcules without cotyledons or coat, when dried they revive; *confer. Amæn. acad. 2. p. 284.*

What we have term'd *Anthers* ought perhaps rather to be call'd *Capsules*: and their dust true *Seeds*, since in Buxbaumia and others we have seen within the covers real dust-bearing *Anthers* depending from their filament, gaping at the top, to dismiss their dust on the fringes, as on pistils.

3. The FLAGS are hitherto obscure as to the fructification, except those, which we owe to *Michelius*.

4. FUNGUSES we have thought proper to divide according to the doctrine of Dillenius rather than that of Michelius, because that of the former is evident to every eye, but that of the latter only and scarcely to the eye of the Lynx, nevertheless Michelius has many useful observations in this family, as well as in the Mosses and Flags, to whom alone the knowledge of these fructifications is owing, as far as is yet discover'd.

## CRYPTOGAMIA.

## I. FERNS.

*(Filices.)*

- 1169 Equifétum.  
 1222 Cýcas.  
 1227 Zámia.  
 1170 Onocléa.  
 1171 Ophioglóffum.  
 1172 Osmúnda.  
 1173 Acróstychnum.  
 1174 Pteris.  
 1175 Bléchnum.  
 1176 Hemionítis.  
 1177 Lonchítis.  
 1178 Asplénium.  
 1179 Polypódium.  
 1180 Adiántum.  
 1181 Trichómanes.  
 1182 Marfiléa.  
 1183 Pilulária.  
 1184 Isoétes.

## II. MOSESSES.

*(Musci.)*

- 1185 Lycopódium.  
 1186 Porélla.  
 1187 Sphágnum.  
 1189 Pháscum.  
 1190 Fontinális.  
 1188 Buxbáumia.  
 1191 Spláchnum.  
 1192 Polytrichum.  
 1193 Mnium.

- 1194 Bryum.  
 1195 Hypnum.

## III. FLAUGS.

*(Algæ.)*

- 1196 Jungermánia.  
 1197 Targiónia.  
 1198 Marchántia.  
 1199 Bláfia.  
 1200 Ríccia.  
 1201 Anthóceros.  
 1202 Líchen.  
 1435 Rupínia.  
 1204 Tremélla.  
 1205 Fúcus.  
 1206 Úlva.  
 1207 Conférva.  
 1208 Býffus.

## IV. FUNGUSES.

*(Fungi.)*

- 1209 Agáricus.  
 1210 Bolétus.  
 1211 Hýdnum.  
 1212 Phállus.  
 1213 Cláthrus.  
 1214 Helvélla.  
 1215 Pezízia.  
 1216 Clavária.  
 1217 Lycopérdon.  
 1218 Múcor.

I. FERNS.

## I. F E R N S.

(Filices.)

1169. Equisétum. Tournef. 307. Horse-tail.

FRUCTIFICATIONS disposed in an egg-oblong spike.

*Each orbicular, gaping at the base with many valvelets, connected with a flat targetted top.*

1222. CÝCAS. †

\* Male.

CAL. Spathe none. Spadix none.

*Ament strobil-form, egg'd, ragged, imbricated with scales.**Scales spatuled, polished, fleshy, coloured, keel'd underneath; with a distant reflected dagger.*

COR. none.

STAM. Filaments none. Anthers none.

*The Dust sprinkled on the upper surface of the scales of the Ament, sessile, very copious, most crowded, subglobular, one-cell'd, bursting longitudinally on one side.*

\* Female on a distinct individual.

CAL. Spathe none.

*Spadix most simple, two-edge-compress'd, long, pointed.**Perianth none.*

COR. none.

*PIST. Germs solitary, immersed in the angles of the spadix, beyond the middle, remote, roundish. Style cylindric, very short. Stigma simple.*

PER. Drupe oval, one-cell'd. Rumph.

SEED a Nut woody, one-cell'd. Rumph.

1227. ZAMIA. *Suppl. Plant. p. 68.*\* *Male.*CAL. *Strobile* egg'd, obtuse. *Scales* targetted, horizontal, inverse-egg'd, very obtuse, one-flower'd, thicken'd at top, permanent.

COR. none.

STAM. *Filaments* none. *Anthers* none. *Dust* naked, globular, sprinkled on the inferior surface of the scales, crowded, copious, sessile, two-valved, cut round with an elastic ring. *Fovil* egg-irregular, pellucid.\* *Female* on a distinct plant.CAL. *Strobile* egg'd, imbricated. *Scales* pedicel'd, targetted, angular, then distant, permanent.

COR. none.

PIST. *Germ*s two, irregular, angular, inserted on the margin under the target of the scales, solitary on all sides, nodding. *Style* none. *Stigma* obtuse, obscurely two-cleft on the side.PER. *Drupe* solitary, egg'd.

SEED Nut oval.

OBS. *A Fern with the strobile of Equisetum, or Cupressus, the herb of a Palm.*1170. ONOCLÉA. † *Angiopteris Mitch. 29.*  
*Sensibile Polypody.*

FRUCTIFICATIONS on a two-rank'd, racemed spike.

*Capsules* globular, one-cell'd, five-valved: the valvelets, lanced, acute.

SEEDS numerous, small, sawdust-form, long, villous.

REC. *Proper* of the seeds columnar, erect, one at the base of each valvelet.1171. OPHIOGLÓSSUM. *Tournef. 325. Adder's-*  
*tongue.*

CAPSULE two-rank'd: divided into as many cells with numerous, transverse joints: each gaping transversely when the cell is mature.

SEEDS numerous, very small, rather egg'd.

1172. OS-

1172. OSMÚNDA. \* *Tournef.* 324. *Osmundroyal.*  
*Flowering Fern.*

CAPSULES globular, distinct, disposed in a raceme, gaping horizontally.  
SEEDS numerous, very small, egg'd.

1173. ACRÓSTICHUM. \* *Ruta Muraria Tournef.*  
317. *Wall-rue. Fork-fern.*

FRUCTIFICATIONS accumulated on the whole inferior surface of the frond, so that they every where cover it.

1174. PTÉRIS. \*

FRUCTIFICATIONS disposed in a line, beneath the surrounding margin of the frond.

1175. BLÉCHNUM. †

FRUCTIFICATIONS disposed in lines parallel to the rib of the frond, approximated.

1176. HEMIONÍTIS. † *Mule's-fern.*

The FRUCTIFICATIONS digested in meeting lines, intersecting themselves or branchy.

1177. LONCHÍTIS. \* *Rough Spleenwort.*

The FRUCTIFICATIONS disposed in linelets, placed beneath the sinuses of the frond, moonletted.

1178. ASPLÉNÍUM. \* *Lingua Cervina (Hart's-tongue) Tournef.* 319. *Trichomanes Tournef.* 315. *a. b. Spleen-wort.*

The FRUCTIFICATIONS disposed in straight lines under the disk of the frond.

1179. POLYPÓDIUM. \* *Tournef.* 316. *Lonchitis. Tournef.* 314. *Polypody.*

The FRUCTIFICATIONS distributed in a roundish dot, over the back surface of the frond.

1180. ADIÁNTUM. \* *Tournef.* 317. *Maiden-hair.*

The FRUCTIFICATIONS collected in oval spots under the reflected tops of the fronds.

1181. TRICHÓMANES. †

CALYX top-shape, solitary, erect, from the very margin of the frond.  
*Style* bristly, terminating the capsule.

1182. MAR-

1182. MARSILEA. \* *de Necker Act. Palat. Vol. 3. phys. p. 295. t. 21. Gnettard. Act. Gall. 1762. Zaluzianskia de Necker l. c. p. 302. Salvinia Mich. 58.*

\* *Male flowers numerous, sessile above the frond.*

CAL. none.

STAM. *Filament (or Receptacle) hemisphere convex. Anthers four, awl'd, spirally twisted, erect, long.*

\* *Female flower.*

CAL. none.

PER. roundish, four-cell'd.

SEEDS numerous, nestling, roundish.

OBS. The feminine fructification at the root, globular, four-cell'd.

Lin. Syft. Veg. p. 792. R.

Necker l. c. describes the character of Marsilea quite contrary to that of Linneus in the following manner.

MARSILEA. *in the male there are three to four hairs jointed, at first somewhat incurved towards the top, then straightish, going out from each pimple of the upper surface of the leaves.*

*In the female there are globes in the middle of the roots of the lowest surface, solitary or more in a cavity, of which are many corpuscles. The Gemmation is from the top of the plant and from the lateral base of the opposite leaves, solitary, egg'd, and pedicled.*

*He acknowledges one species only of Marsilea, which he names, M. Salvinioides (which is the M. natans of Linneus).*

*In this species de Necker denies both anthers and stigmas, but thinks those globules or styles of which Linneus has taken notice in Mant. p. 506. are only the eminencies of the leaves furnish'd with hairs.*

*From this genus de Necker separates the four-leaved Marsilea, which he calls Zaluzianskia with a character intirely different from Marsilea. For according to Necker,*

ZALUZIANSKIA *has a common corpuscle, oval, leathery, two-cell'd, flat-tish, terminal at the side of the plant, including two other corpuscles. Gemmation. The initials of the plant crowded, incircled, are always present. R.*

1183. PILULÁRIA. \* *Vaill. Pepper Grass. Pill-Moss.*

\* *Males* in a line like dust under the leaf (at the side of the frond. *Syst. Veg.* p. 792.)

\* *Females* at the root.

Globe four-cell'd, many-seeded.

1184. ISÓETES. \* *It. Scanix.* 420.

\* *Male* flowers solitary within the base of the interior leaves.

CAL. *Scale* hearted, acute, sessile.

COR. none.

STAM. *Filament* none. *Anther* roundish, one-cell'd.

\* *Female* flowers solitary, within the base of the exterior leaves of the same plant.

CAL. as in the male.

COR. none.

PIST. *Germ* egg'd, within the leaf, with the *style* and *stigma* concealed.

PER. *Capsule* rather egg'd, two-cell'd, concealed within the base of the leaf.

SEEDS numerous, globular.

## II. M O S S E S.

(*Musci.*)

1185. LYCOPÓDIUM. \* *Amoen. acad.* 2. p. 295.

*Dill. musc.* 441. *Selagionoides Dill. musc.* 460.

*Lycopodioides Dill. musc.* 462. *Selago Dill.*

*musc.* 435. *Wolf's-foot. Upright Fir-moss.*

\* *Male* flower sessile in the wings of the leaves.

CAL. *Calyptra* none.

ANTHER kidney-form, two-valved, sessile.

\* *Female* flower on the same vegetable.

CAL. *Perianth* four-leaved.

PIST. none.

SEEDS conjoined by a plume to the calyx without cotyledons.

A a a 4

1186. PO-

1186. PORÉLLA. \* *Dill. musc.* 459.\* *Male flower sessile.*CAL. *Calyptre* none.

ANTHER oblong, gaping with many lateral pores ; not covered.

RECEPTACLE. *Apophysis* none.\* The *female* flower has not yet been observed.1187. SPHAGNUM. \* *Dill. musc.* 240. *Bog-moss.*\* *Male flower subseffile.*CAL. *Calyptre* none.

COR. none, but a fugitive membrane between the Anther and Receptacle.

ANTHER globular: (the mouth most intire), cover'd with an obtuse *Lid.*RECEPTACLE. *Apophysis* margined, obscure, under the anther.\* The *female* flower hitherto unknown to us.

## 1189. PHASCUM. \*

\* *Male flower subseffile or on a short peduncle.*CAL. *Calyptre* minute.ANTHER oval, with a fringed mouth, covered with a pointed *Lid.*RECEPT. *Apophysis* none.\* *Female flower.*OBS. Ph. *acaulon* (*stemless*) and *subulatum* (*awl'd*) bear a *calyptre* ; and therefore may be commodiously associated with the *Bryums*. *Syst. Veg.* 794. R.1190. FONTINALIS. \* *Dill. musc.* 254. *Fountain Moss.*\* *Male subseffile.*CAL. *Calyptre* polish'd, conic, sessile, included in a perichætium.ANTHER oblong, with a fringed mouth, covered with a pointed *lid.*RECEPT. *Apophysis* none.

PERICHÆTIUM pitcher'd, imbricated, obvolving the anther.

\* *Female flower.*

## 1188. BUX-

1188. BUXBAUMIA. \* *Amoen. acad. 5. p. 78. t. 1.*  
*Hippopodium Fabric. butisb.*  
 31. *Horse-foot.*

\* *Male flower peduncled.*

CAL. *Calyptræ* conic, falling off.

ANTHER oval, gibbous on one side, membranous on the other, with a fringe-plaited mouth; covered with a *lid* conic, perforated at the base, within which hangs from a slender *Filament* a real *Anther*, lop'd downward, dust-bearing.

REC. *Apophysis* none.

1191. SPLACHNUM. \* *Amoen. acad. 2. p. 270.*

\* *Male flower peduncled.*

CAL. *Calyptræ* conic, polished, falling off.

ANTHER cylindric: the mouth gaping with eight reflected toothlets, destitute of a ring.

RECEPT. *Apophysis* membranous, coloured, very large, under the *Anther*.

\* *Female flower on a distinct vegetable.*

CAL. *Common* star'd, terminal, from leaflets many, awl'd, every way ray'd, imbricated.

PISTILS many: central, level-top'd, short, colour'd.

1192. POLYTRICHUM. \* *Dill. musc. 429. (Much Hair) Golden Maiden Hair.*

\* *Male flower peduncled from the top of the vegetable.*

CAL. *Calyptræ* conic, villous, equal.

ANTHER oblong, with a mouth fringed, covered with an orbicular membrane, with a conic *lid*.

RECEPT. *Apophysis* margined, very small, beneath the anther.

PERICHÆTIUM a cylindric sheath, much shorter than the peduncle.

\* *Female flower on a distinct individual.*

CAL. *Common* expanding into an imbricated, coloured rose.

PISTILS thread-form, jointed.

1193. MNÍ-

1193. MNÍUM. \* *Dill. musc.* 229.

\* Male flower peduncled.

CAL. *Calyptré* oblong, pointed, polished.

ANTHER roundish, with a fringed annular mouth, covered with a subconic lid.

RECEPT. *Apophysis* none.

\* Female flower oftner on a distinct individual.

CAL. *Common* star'd with ray'd leaves.

PIST. many, central, collected.

1194. BRÝUM. \* *Dill. musc.* 338.

\* Male peduncled from the top of the shoots.

CAL. *Calyptré* oblong, pointed, oblique, polished.

ANTHER roundish or oblongish, with a fringed annular mouth, covered with a conic lid.

RECEPT. *Apophysis* none.PERICHÆTIUM none, but a *tubercle* for the base of the peduncle.OBS. *There are species with a hairy calyptré.* R.1195. HÝPNUM. \* *Dill. musc.* 261.

\* Male flower peduncled, from the wings of the leaves to the sides of the shoots.

CAL. *Calyptré* oblong, oblique, polished.

ANTHER oblongish: the mouth fringed, cover'd with a pointed lid.

RECEPT. *Apophysis* none.

PERICHÆTIUM scaly, emitting a peduncle at the sides of the shoots.

\* Female flower on the same vegetable from the wings of the leaves.

CAL. *Common* none.

PIST. solitary from the wings of the leaves, the plume naked.

## III. F L A G S.

(Algæ.)

1196. JUNGERMANNIA. \* *Mitch.* 5. Muscoides  
*Mich.* 6. Lichenastrum *Dill musc.* 479. (*Moss-*  
*like.*)

\* *Male* flower stands on a long straight peduncle proceeding from the calyx.

CAL. *Perichætium* tubular.

COR. none.

STAM. *Anther* egg'd, gaping into valvelets four, expanding, equal, permanent.

\* *Female* flower sessile, oftner on the same plant, naked.

CAL. none, (apparent).

COR. none.

SEEDS solitary or crowded, roundish.

1197. TARGIONIA. † *Mich.* 3.

CAL. subglobular, two-valved.

ANTHER sessile, bell'd, in the bottom of the calyx.

1198. MARCHANTIA. \* *March. A.G.* 1713. t. 5.  
*Mich.* 1. Hepatica *Mich.* 2. Lunularia *Mich.* 4.  
*Lichen Dill. musc.* 515.

\* *Male* flower rises on a peduncle long, straight, proceeding from the calycle.

CAL. *Common Perianth* four-cleft, five-cleft, or ten-cleft, targetted, (the divisions equal, deflected on the sides), very large, covered under with as many florets, as it has divisions.

COR. one-petal'd, top-shape, shorter than the calyx, straight.

STAM. *Filament* one, longer than the corol, simple. *Anther* nearly egg'd, gaping from the top into as many divisions as those of the common calyx; the dust fixed upon hairs.

\* *Female* flower sessile, on the same plant.

CAL. *Perianth* consisting of a margin membranous, erect, spreading, intire, permanent, one-leaved.

COR. none, unless you so name the calyx.

SEEDS many, roundish, compressed, naked, in the bottom of the calyx.

OBS. Of *Marchantia* M. The common male calyx is flat, divided into from eight to ten divisions, not involving the florets.

Of *Hepatica* M. The common male calyx is flat, five-cleft, conic with converging divisions.

Of *Lunularia* M. The calyx is cross-form; the divisions obvolving the florets.

1199. B L A-

1199 BLÁSIA. \* *Mich. gen. 7.*\* *Male flower?*

CAL. one-leaved, egg'd at the base, cylindric in the middle, dilated at the top, lop'd.

STAM. many granules, free.

\* *Female flower?*

CAL. scarcely any.

PER. roundish, solitary, immersed in the leaves.

SEEDS few, roundish.

OBS. *May not the male flower be named the female one, and vice versa*1200. RÍCCIA. \* *Mich. 57. Marsh Liver-wort.*\* *Male flower sessile.*

CAL. none.

COR. none.

STAM. *Anther* awl'd, lop'd, sessile, gaping at the top.\* *Female flower on the same (or a different Mich.) plant,*

CAL. scarcely any.

PER. globular, one-cell'd.

SEEDS many.

OBS. D. Schreberus *has thus given the character of the genus: (Vie Syst. Veg. p. 804).*

CAL. none, except the vesicular cavity within the substance of the leaf.

COR. none.

STAM. *Anther* cylindric, sessile, placed on the germ.PIST. *Germ* top-shape. *Style* thread-form, perforating the anther.

PER. spherical, crowned with a withered anther.

SEEDS hemispheric, pedicel'd.

1201. ANTHÓCEROS. \* *Mich. 7. Dill. musc. 475*  
(*Horn-flower.*)\* *Male flower sessile.*

CAL. one-leaved, cylindric, lop'd, intire.

COR. none.

STAM. *Filaments* none. *Anther* one, awl'd, very long, two-valved the *Dust* affixed to a free capillary receptacle.\* *Female flower sessile, often on the same, or a distinct plant*

CAL. one-leaved, six-parted, expanding.

SEEDS three (about), naked, in the bottom of the calyx, roundish.

OBS. *One third part of the calyx is often excluded, the same proportion of number is observed in the seeds.*

1202. LI-

202. LICHEN. \* *Tournef.* 325. *Mich.* 36-53.  
*Lichenoides Dill. musc.* 124. *Coralloides Dill.*  
*musc.* 75. *Ufnea Dill. musc.* 56. *Liver-wort.*  
*Coral-moss.*

\* *Male flowers* numerous, oftner growing on a receptacle orbicular, very large, glossy, flattish, convex or concave, glutinous.

\* *Female flowers and Seeds* scattered like dust on the same or a distinct plant.

eprous tubercled.

targetted.

imbricated.

leafy.

leathery.

cup-bearing.

shrubby.

filamentous.

204. TREMELLA. \* *Dill. musc.* 41. *Trembler.*

A substance uniform, pellucid, membranous, gelatinous, leafy.

Obs. It differs from *Lichen* in the tubercles and targets not being obvious.

205. FUCUS. \* *Reaum. A. G.* 1711. t. 9. 10. 11.  
*Wrack. Sea-weed.*

\* *Male flowers?*

*Vesicles* smooth, hollow, sprinkled with hairs within.

\* *Female flowers.*

*Vesicles* smooth, replat with jelly, sprinkled with perforated dots pregnant with seed.

SEEDS solitary.

206. ULVA. \* *Dill. gen.* *Laver.*

The FRUCTIFICATIONS in a vesicular diaphanous membrane, without a frond.

207. CONFÉRVA. \* *Dill. musc.* 11.

Fibres simple, uniform, capillary, filamentous.

Obs. These fibres are either continued or jointed.

1208. BYS-

1208. BYSSUS. \* *Dill. gen. 1. Mich. 80. 90.*  
*Aspergillus Mich. 91. Botrytis Mich. 91.*

Fibres simple, uniform, woolly or dusty.

#### IV. FUNGUS ES.

(Fungi.)

1209. AGÁRICUS. \* *Dill. Amanita Dill. Mushroom.*

The FUNGUS horizontal, lamellated underneath.

Obs. *Agaricus D. wants the petiole, and grows by the lateral margin.*  
*Amanita D. is furnished with a petiole, inserted into the orbicular center of the head.*

*Observations, as many as have hitherto been made, shew that the Agarics of Dillenius do not differ in species from Amanita, Boletus & Erinaceus of Dillenius but are changeable by the place of their growth.*

1210. BOLÉTUS. \* *Dill. Suillus Mich. 68. 69.*  
*Polyporus Mich. 70. 71. Many-pores.*

FUNGUS horizontal, porous underneath.

1211. HÝDNUM. \* *Erinaceus Dill. Mich. 72.*

FUNGUS horizontal, hedge-hog'd underneath, with awl'd fibres.

1212. PHÁLLUS. \* *Mich. 83. Boletus Mich. 85.*  
*Phalloboletus Mich. 84. Morel.*

FUNGUS polished under, netted above with calluses.

1213. CLÁTHRUS. *Mich. 93.*

FUNGUS roundish, consisting of a netted, window'd, hollow body: the ramifications every where connected.

1214. HEL-

1214. HELVÉLLA. \* Fungoidaster *Mich.* 82. Fungoides *Mich.* 86. Fungoides species *Vaill.* B.P. XI. 8.

FUNGUS above and below polished, top-shape.

1215. PEZÍZA. \* *Dill.* Cyathoides *Mich.* 102. Cup-mushroom. Fungoides species *Vaill.* B. P. XI. 4. 5. 6. 7.

FUNGUS bell'd, sessile, with seeds orbicular, convex-flat.

OBS. All the species have not seeds obvious to sight. R.

1216. CLAVÁRIA. \* *Vaill.* B. P. VII. *Mich.* 87. Coralloides *Tournef.* 332. *Mich.* 88. Corallofungus *Vaill.* B. P. VIII. Fungoides *Dill.* Club-fungus.

FUNGUS polished, oblong, the surface uniform.

1217. LYCOPÉRDON. \* *Tournef.* 331. *Mich.* 97. *Vaill.* B. P. XVI: 4-10. Bovista *Dill.* Lycoperdoides *Mich.* 98. Lycoperdastrum *Mich.* 99. Geaster *Mich.* 100. Carpobolus *Mich.* 101. Fuz-ball. Puff-ball.

FUNGUS roundish, replete with farinaceous impalpable seeds, gaping from the top.

1218. MÚCOR. \* *Mich.* 95. Mucilago *Mich.* 96. Lycolaga *Mich.* 95. Mould.

FUNGUS with stiped vesicles, in which there are numerous seeds affixed to cross-form receptacles.

CLASS

## CLASS XXV.

## APPENDIX.

## PALMS.

*(Palmæ.)*

1219	Chamærops.	1225	Aréca.
1220	Boráffus.	1226	Élate.
1221	Córypha.	1228	Caryóta.
1223	Cócos.	1436	Maurítia.
1224	Phœnix.		Licuála.
1284	Elœis.		Nípa.

## I. P A L M S.

1219. CHAMÆEROPS. \* *Mus. Cliff.* 10. Chamæ-  
ripes *Pont.* 10. Dwarf Palm. Palmetto.  
(Polygamy Two-houses.)

\* Hermaphrodite.

CAL. universal *Spathe* compress'd, two-cleft. *Spadix* branchy.

*Proper Perianth* three-parted, very small.

COR. three-parted. *Petals* egg'd, leathery, erect, acute, inflected at the top.

STAM. *Filaments* six: awl-compress'd, rather cohering at the base. *Anthers* linear, twin, growing to the interior side of the filaments.

PIST. *Germ* three, roundish. *Styles* as many, distinct, permanent. *Stigmas* acute.

PER. *Drupes* three, globular, one-cell'd.

SEEDS solitary, globular.

\* Male on a separate plant, flowering in the same manner.

CAL. *Spathe* as in the hermaphrodite,

*Perianth* as in the hermaphrodite.

COR. as in the hermaphrodite.

STAM. *Receptacle* gibbous, ending in six not perforate-distinct *Filaments*.  
The rest as in the hermaphrodite.

1220. BORASSUS. *Mus. Cliff.* 13. Ampana H. M.  
I. 10. Carim-pana H. M. I. 9. (Two-houses  
six males).

\* Male Ampana.

CAL. universal *Spathe* compound. *Spadix* amentaceous, imbricated.

COR. three-parted. *Petals* egg'd, concave.

STAM. *Filaments* six, thickish. *Anthers* thicker, striated.

\* Female Carim-pana: on a separate plant.

CAL. *Spathe* and *Spadix* as in the male.

COR. three-parted. *Petals* roundish, small, permanent.

PIST. *Germ* roundish. *Styles* three, small. *Stigmas* simple.

PER. *Berry* (*Drupe*) roundish, obtuse, rigid, one-cell'd.

SEEDS three, rather egg'd, compress'd, distinct, filamentous.

1221. CORYPHA. *Mus. Cliff.* 11. Codda-panna.  
II. M. II. 12.

CAL. universal *Spathe* compounded. *Spadix* branchy.

COR. three-parted. *Petals* egg'd, obtuse, expanding.

STAM. *Filaments* six, awl'd, longer than the corol. *Anthers* adjoined.

PIST. *Germ* roundish. *Style* awl'd, short. *Stigma* simple.

PER. *Berry* globular, large, one-cell'd.

SEED one, bony, large, globular.

OBS. Brown describes his *Corypha* otherwise? is it therefore of a distinct genus?

CAL. *Spadix* simple, branchy, imbricated with proper spathes.

*Perianth* none.

COR. none.

STAM. *Filaments* six, short, growing on the sides of the germ.  
*Anthers* oblong.

PIST. *Germ* globular, small. *Style* simple, short. *Stigma* headed,  
rather funnel-form.

PER. *Drupe* one-cell'd.

SEED *Nut* with a bony Aril.

1223. CÔCOS. † *Mus. Cliff.* Tenga H. M. I. t.  
 1-4. Brown 341. *Cocoa Nut.* (*One-house*  
*six males*).

\* *Male flowers on the same spadix with the female ones.*

CAL. universal *Spathe* one-valved. *Spadix* branchy.

*Perianth* three-parted, very small: the *divisions* nearly three-sided, concave, coloured.

COR. *Petals* three, egg'd, acute, spreading.

STAM. *Filaments* six, simple, the length of the corol. *Anthers* arrowed.

PIST. *Germ* scarcely manifest. *Styles* three, short. *Stigma* obscure.

PER. abortive.

\* *Female flowers on the same spadix with the males.*

CAL. *Spathe* common with hermaphrodites, as also the *Spadix*.

*Perianth* three-parted: the *divisions* roundish, concave, converging, coloured, permanent.

COR. *Petals* three, permanent, similar to the calyx, but rather larger.

PIST. *Germ* egg'd. *Style* none. *Stigma* three-lobed.

PER. *Drupe* leathery very large, roundish, obscurely three-corner'd.

SEED *Nut* very large, rather egg'd, pointed, three-cell'd (*Brown*), three-valved, obtusely three-cornered, pervious with three holes at the base. *Nucleus* hollow.

1224. PHŒNIX. † *Kœmpf.* 2. *Elate Mus. Cliff.* 12.  
 Katouindel H. M. III. 23. *Common Palm or*  
*Date Tree.* (*Two houses three males.*)

\* *Male flowers.*

CAL. universal *Spathe* one-valved. *Spadix* branchy.

*Perianth* three-parted, very small, permanent.

COR. *Petals* three, concave, egg'd, oblongish.

STAM. *Filaments* three, very short. *Anthers* linear, four-cornered, the length of the corol.

\* *Female flowers on a different plant, or on the same spadix.*

CAL. as in the male.

COR. (three-petal'd Syft. Veg.) three-parted, with as many exterior divisions, and the alternate ones very small.

PIST. *Germ* roundish. *Style* awl'd, short. *Stigma* acute.

PER. *Berry (Drupe)* egg'd, one-cell'd.

SEED one, bony, nearly egg'd, plough'd with a longitudinal furrow.

1284. ELÆIS. \* *Jacq. amer.* 280.

\* *Male.*

CAL. *Perianth* six-leaved: the *leaflets* concave, erect.

COR. one-petal'd, six-cleft, erect, acute; the length of the calyx.

STAM. *Filaments* six, awl'd the length of the corol. *Anthers* oblong, acute.

\* *Female.*

CAL. as in the male.

COR. six-petal'd.

PIST. *Germ* egg'd. *Style* thickish. *Stigmas* three, reflected.

PER. *Drupe* fibrous egg'd, subangular, oily.

SEED *Nut* egg'd, rather three-cornered, with three perforations, three-valved, one-cell'd.

1225. ARÉCA. *Aréca Nut.* (*One house nine males.*)

\* *Male flowers.*

CAL. *Spathe* two-valved. *Spadix* branchy.

COR. *Petals* three, pointed, rigid.

STAM. *Filaments* nine, of which the three exterior are longer.

\* *Female flowers on the same spadix.*

CAL. *Spathe* common with the males.

COR. *Petals* three, pointed, rigid.

PIST. - - - - -

PER. *Drupe* rather egg'd, fibrous, girt at the base with an imbricated calyx.

SEED egg'd.

1226. ÉLA-

## 1226. ÉLATE.

\* *Male flowers.*CAL. *Spathe* two-valved. *Spadix* branchy.COR. *Petals* three, roundish.STAM. *Filaments* three, simple. *Anthers* adjoined.\* *Female flowers* on the same *spadix* with the male ones.CAL. *Spathe* common with the males.COR. *Petals* three, roundish, permanent.PIST. *Germ* roundish. *Style* awl'd. *Stigma* acute.PER. *Drupe* egg'd, pointed.SEED *Nut* egg'd, plough'd with a furrow.

1228. CARYÓTA. *Musf. Cliff.* 12. Schunda-pana  
H. M. I. 11. (One house many males.)

\* *Male flowers.*CAL. universal *Spathe* compound. *Spadix* branchy.COR. three-parted. *Petals* lanced, concave.STAM. *Filaments* many, rather longer than the corol. *Anthers* linear.\* *Female flowers* on the same *spadix* with the male ones.

CAL. common with the males.

COR. three-parted. *Petals* pointed, very small.PIST. *Germ* roundish. *Style* pointed. *Stigma* simple.PER. *Berry* roundish, one-cell'd.

SEEDS two, large, oblong, roundish on one side. flat on the other.

B b b 3 1436. MAU-

## 1436. MAURÍTIA. S.

\* *Male flowers* on an ament oblong, sessile, every where covered with flowers straitly approximated, with obtuse scales between each flower.

CAL. *Perianth* one-leaved, cup-form, lop'd, intire, three-sided, short.

COR. one-petal'd. *Tube* short, the length of the calyx, with three futures, by which the divisions of the border are easily separated to the base. *Border* three-parted; the *divisions* equal, rather expanding, lanced, channel'd, rigid, as if woody, obtuse.

STAM. *Filaments* six, inserted into the throat of the tube, very short, thick. *Anthers* linear, angular, the length of the petals: the *alternate ones* extended between the divisions of the border, horizontal: *three alternate ones* erect, appress'd to the channel of the divisions.

## NIPA. Thunb. nov. gen. 5. p. 90.

\* *Male flowers*.

CAL. *Spathes* oblong, concave, pointed, leathery: the exterior ones larger, gradually including the interior.

*Proper Perianth* none.

COR. *Petals* six, linear, equal, reflex-expanding.

STAM. *Filament* one, thread-form, erect, the length of the petals. *Anther* on the top of the filament, perforated, oblong, twelve-furrow'd.

\* *Feminine flowers* on the same Palm.

CAL. *Spathes* as in the male

COR. none.

PIST. *Germ* angular, often five-angled, obliquely lop'd, smooth.

*Style* and *Stigma* none, but in their place a furrow on each side.

PER. *Drupe*s very numerous, collected at top into the size of a head, with unequal angles acute or obtuse, attenuated below, obtuser above, smooth.

LICUÁLA. *Thunb. Act. Stockholm, 1782.*  
*p. 286. nov. gen. 3. p. 70.*

CAL. *Perianth* one-leaved, three-parted, hairy without.

COR. three-parted almost to the base: the *divisions* egg'd, acute, concave.

*Nectary* garland-form, lop'd. twice as short as the corol.

STAM. *Filaments* six, inserted into the nectaries, erect, very short.  
*Anthers* oblong, twin.

PIST. *Germ* above, convex, furrow'd, three-parted, smooth. *Style*  
 one, simple. *Stigmas* two.

PER. *Drupe* globular, the size of a pea.

SEED *Nut* hard.

I. *WE* have here inserted those plants from the works of Thunberg and L'Heritier, which we could not arrange in their proper places, not having soon enough been able to procure those books.

*Three Males, One Female, before Ixia.*

WITSÉNA. *Thunb. nov. gen. p. 33.*

CAL. none, except the bractes.

COR. one-petal'd, tubular, erect, longer than the bractes. *Tube* cylindric, gradually enlarged. *Border* six-parted, erect-expanding: the *divisions* oblong, obtuse, downy.

STAM. *Filaments* three, inserted above on the tube. *Anthers* oblong, erect.

PIST. *Germ* above. *Style* one, thread-form, erect, bowing at the top, rather longer than the corol. *Stigma* end-nick'd.

*Four Males, Two Females, before Aphanes.*

GALOPINA. *Thunb. nov. gen. p. 3.*

CAL. none.

COR. four-cleft, above, revolute.

STAM. *Filaments* four, capillary, deciduous, long, inserted on the receptacle.

PIST. *Germ* beneath. *Styles* two, rather shorter than the filaments, growing out. *Stigmas* simple.

PER. none.

SEEDS two, naked, subglobular, murex'd.

*Four*

*Four Males, One Female.*

MONÉTIA. L'Heritier, *Stirpes novæ. Fasc. 1.*

- CAL. *Perianth* one-leaved, belled, obscurely half-fourcleft, (two opposite interstices deeper), first three-cleft, then only two-cleft: (the *divisions* lanced, acute, reflected), pubescent, permanent.
- COR. *Petals* four, inserted into the receptacle, subopposite to the calyx-divisions, longer than the calyx, linear, acute, revolute.
- STAM. *Filaments* four, erect, inserted into the receptacle, almost the length of the corol. *Anthers* oblong, two-cell'd, targetted.
- PIST. *Germ* above, rather four-corner'd, ending in a thickish conic *style*, which is shorter than the stamens. *Stigma* acute.
- PER. a *Berry*? juiceless, globular, retaining the calyx at the base: (a pappy head placed on the top), two-cell'd.
- SEEDS two, one in each cell, (*if the fruit be really two-cell'd*) appress'd, orbicular, compress'd, flat inwards, subconvex outwardly.

*Five Males, One Female, after Celosia.*

CHENOLÉA. Thunb. *nov. gen. p. 9.*

- CAL. *Perianth* one-leaved, globular, concave, rather fleshy, five-parted with divisions closely inflected. silver-downy without, smooth within.
- COR. naked.
- STAM. *Filaments* five, inserted into the base of the calyx, thread-form, erect, bent according to the margin of the capsule, the length of the calyx. *Anthers* minute.
- PIST. *Germ* above. *Style* thread-form, very short. *Stigmas* two, simple, awl'd, acute, reflex-expanding, rather longer than the style.
- PER. *Capsule* round, subdepress'd, navel'd, smooth, one-cell'd.
- SEED roundish, two-cleft at top, smooth.

*Five*

*Five Males, One Female, after Randia.*

**FAGRÆA.** *Thunb. nov. gen. p. 34.*

- CAL.** *Perianth* one-leaved, bell'd, five-parted: the *divisions* obtuse, incumbent, membranous at top.
- COR.** one-petal'd, funnel-form: *Tube* columnar, gradually dilated at top: *Border* contorted, five-parted: the *divisions* oblong, oblique, obtuse, intire, expanding.
- STAM.** *Filaments* five, inseried into the tube, thread-form, equal, shorter than the corol. *Anthers* twin, egg'd, vertical, convex without, four-furrow'd, flat within, easily two-partible.
- PIST.** *Germ* above. *Style* thread-form, the length of the corol. *Stigma* targetted, orbicular, flat.
- PER.** *Berry* egg'd, fleshy, smooth, covered with a scarf skin, two-cell'd, the size of a small pear.

*Five Males, One Female, after Savagezia.*

**CARÓXYLON.** *Thunb. nov. gen. p. 37.*

- CAL.** *Perianth* two-leaved, suborbicular, rude, concave within, keel'd without, very slender on the margin, erect, shorter than the corol.
- COR.** one-petal'd, five-parted almost to the base. *Tube* none: *divisions* of the *Border* obtuse, broad, roundish, hollow-curved, membranous, expanding.
- Nectary.* Scales five, inserted into the middle of the corol, rather narrower, and shorter than the corol, and conjoin'd with it beneath; placed on the converging fruit, egg'd, acutish, concave, membranous.
- STAM.** *Filaments* five, inserted on the sides of the germ, shorter than the corol, capillary. *Anthers* very small.
- PIST.** *Germ* above, conic, smooth. *Style* simple, shorter than the corol, erect. *Stigmas* two, revolute, sometimes a single stigma.
- PER.** none.
- SEED** one, depress'd, round, spiral, clothed with a very slender membrane, cover'd with the permanent filaments and nectary.

*Five*

*Five Males, One Female, after Cedrela.*

**CALODENDRON.** *Thunberg. nov. gen. p. 41.*  
*Fine-tree.*

- CAL.** *Perianth* one-leaved, permanent, five-parted : the *divisions* egg'd, acute, thickish, smooth within ; villous-murex'd without, with subrevolute margins ; many times shorter than the corol.
- COR.** five-angled before its expansion, the length of the calyx, five-petal'd when expanded. *Petals* lanced, obtuse, expanding, channel'd within, keel'd without, waved, villous, thrice as long as the calyx.
- Nectaries* five, petal-form, inserted on the receptacle within the petals, line-lanced, awl'd at top, terminated with a gland, narrower than the corol, but of the same length, smooth, silver-glanded.
- STAM.** *Filaments* five, equal, the length of the corol : four anther-bearing, one barren. *Anthers* egg'd, furrow'd, hearted, inserted on the back.
- PIST.** *Germ* above, pedicel'd, headed, murex'd. *Style* inserted on one side of the germ, thread-form, the length of the filaments. *Stigma* simple, obtuse.
- PER.** *Capsule* egg'd, five-angled, with obtuse angles, five-furrow'd, murex'd, peduncled, five-valved, five-cell'd, the size of a Prune.
- SEEDS** two in each cell, subtriangular, convex on the back, smooth, the size of a pea.

*Six Males, Three Females, after Scheutzeria.*

**WURMBEA.** *Thunb. nov. gen. p. 18.*

- CAL.** one-leaved, tubular, six-angled, smooth, half six-parted : the *divisions* lanced, acute, erect, expanding.
- COR.** none.
- PIST.** *Germ* above, three-sided, furrow'd, smooth. *Styles* three, three-sided, awl'd, the length of the stamens. *Stigmas* obtuse.
- PER.** *Capsule* oblong, three-sided, three-furrow'd, smooth, three-cell'd, three-parted from the middle, coalesced of three styles.
- SEED** round, very numerous.

*Ten*

*Ten Males, One Female, after Swietenia.*

**EKEBÉRKIA.** *Thunb. nov. gen. p. 43.*

**CAL.** *Perianth* one-leaved, bell'd, downy, four-parted: the *divisions* egg'd, obtuse.

**COR.** four-petal'd, rather longer than the calyx. *Petals* oblong, obtuse, downy without.

*Nectary* a ring surrounding the base of the germ.

**STAM.** *Filaments* ten, very short, pubescent. *Anthers* egg'd, acute, erect, yellow with two black lines.

**PIST.** *Germ* above. *Style* cylindric, very short. *Stigma* headed.

**PER.** *Berry* globular, five-seeded, the size of a Filbert.

**SEEDS** oblong, the *Berry* varies in the number of seeds, from two to five.

*Twelve Males, One Female.*

**ARISTOTÉLIA.** *L'Heritier. Stirp. nov. p. 31.*

**CAL.** *Perianth* one-leaved, five-parted, concave-erect, villous: the *divisions* lanced, acute, appress'd, permanent, at length withering, then deciduous.

**COR.** *Petals* five, inverse-egg'd, obscurely scallop-lop'd, concave, subimbricated on the side, erect, sessile, inserted on the receptacle, scarcely longer than the calyx.

**STAM.** *Filaments* fifteen, of which five are interior, as if subapproximated by threes, (the intermediate interior one opposed to the calyx), very short, inserted on the receptacle. *Anthers* linear, two-cell'd, appress'd to the germ, and scarcely shorter, longer than the filaments, (what I have seen were sterile).

**PIST.** *Germ* above, roundish, rather three-corner'd. *Style* thread-form, longer, than the corol, half three-cleft, reflected at top. *Stigmas* three, simple, scarcely pubescent, (the style is sometimes three-cleft, sometimes triple).

**PER.** *Berry* subglobular, obtusely three-corner'd, three-cell'd, the size of a pea.

**SEEDS** two, or solitary in each cell, roundish, egg'd when solitary, obscurely angular when two, hard.

*II. The*

II. *The following are the essential characters of three plants from the 14th. edition of Murray's Systema Vegetabilium. These plants are published by Jacquin in the 9th. vol of the Acta Helvetica, which has not yet reached London.*

*Five Males, One Female, after Cedrela.*

ELEODÉNDRON. *Jacq. jun. in. act. helv. v. 9. Fig. 2.*

COR. five-petal'd, beneath. *Dupe* egg'd. Nut two-cell'd.

*Six Males, One Female, after Burmannia.*

LACHENÁLIA. *Jacq. jun. act. helv. v. 9. tab. 3.*

CAL. rather three-leaved, beneath, colour'd.

COR. three-petal'd, inserted into the receptacle.

OBS. *Is this plant different from the Phormium of the Supplement?*  
Dr—n—r.

*Confederate Males, Frustraneous Polygamy, after Osmites.*

SCLEROCÁRPUS. *Jacq. jun. act. helv. vol. 9.*

*Receptacle naked. Pappus none.*

CAL. furrow'd.

III. We

III. We have followed the example of *Murray* in the 14th. edition of the System of Vegetables, in changing the name of *Drimys* No. 1403, of the Supplement Plant, to *Wintêra*, because the Winter's bark is obtained from it, and the name *Winterâna* No. 598, of the Gen. Plant. and Syst. Veget. to *Canella*, from the same authority, to prevent the confusion between *Canella alba* and Winter's bark; and the trees, which produce them.

As *Solandra* is removed from No. 1061, of the 13th edition of the System of Vegetables, to the genus *Hydrocotyle* in the Supplem. Plant. p. 272, it is therefore omitted, and the essential character of a plant described by *Murray* in the comment. Gott. is given under the name *Solandra* from the 14th, edition of the System. Veg. by *Murray* is inserted at the end of this Postscript.

*Fusanus* was placed in System. Veget. edition 13, after No. 1142, preceding *Acer*, but is removed in the Supplem. Plant. to the genus *Thesium*, p. 161, and is therefore here omitted.

*Centella* No. 1051, of Gen. Plant. and System. Veget. edition 13, is transfer'd in the Suppl. Plant. to the genus *Hydrocôtyle*, along with *Solandra*, and ought therefore to have been omitted, but is inserted by mistake.

IV. *The following observations are extracted from the addenda of Dr. Reichard.*

MURRAY in the Com. reg. Soc. Gœtting. T. 6. has described from the living plant the AMOMUM *Zerumbet*, the character of which differs something from the Amomum of Linneus.

The generic character of THALIA is emended by Rottboell in Col. Soc. med. Haun. v. 2. in the following manner.

RACHIS bending at right angles, on whose arms the flowers sit without a proper pedicel.

SPATH. *Glume* permanent, two-flower'd, two-valved: the *valvelets* lanced, acute, concave, equal.

*Perianth scales* three, very small, fringed, permanent, crowning the germ.

COR. *Petals* five, above, withering, in a double series: the *three exterior* longer, oblong, waved, conjoin'd at the base, expanding. *Two interior* less, erect-expanding, oblong, conjoin'd with each other, and with the nectary at the base.

*Nectary* petal-form, placed at the two smaller petals, lanced, pointed, concave.

STAM. *Filaments* one, awl'd, inserted into the nectary. *Anther* club'd.

PIST. *Germ* top-shape, crowned with the calyx. *Style* thread-form, inflected. *Stigma* leafy, inflected.

PER. *Drupe* oblong, gibbous, one-cell'd.

SEED one, awl'd, inflected? R.

From

From a new species of *HEUCHERA*, call'd *dichotoma*, two-fork'd, described by Murray in nov. Com. Goett. T. 3. it appears that the character of the genus wants emendation, the mention of the depth of the interstices of the calyx, and of the figure of the divisions should be omitted, as liable to variation, nor should the proportion between the stamens, and the calyx be admitted.

The character of *CALLIGONUM* described from living plants by Pallas, so much differs from that of Linneus, that it may be worth inserting. (Itin. Tom. 3. p. 536.)

CAL. none.

COR. five-petal'd, permanent: the inferior *petal* rather larger, the two opposite ones more oblong, less.

STAM. ten, twelve at most, the length of the corol, erect, withering along with the corol, as the fruit increases, not deciduous. *Filaments* bristly, thicker at the base, downy. *Anthers* sub-globular, twin.

PIST. *Germ* conic, four-sided, sometimes three-sided, the two-cleft angles growing into the wings of the seed. *Styles* three, reflected. *Stigmas* headed.

FRUIT *Nut* oblong, four-sided, the keels elongated into a slender crest, to which is adjoin'd an orbicular wing, or suboval membrane, striated from the disk toward the margin, waved, the four *wings* converge on all sides about the nut, and conceal it.

SEM. *Nucleus* oblong, four-sided, deeply ingraved between the angles, Corcule central, growing out from the top of the nut.

V. *Essential character of Solandra, from the 14th. edition of Systema Vegetabilium.*

*One Brotherhood, Many Males, after Sida.*

.... SOLÁNDRA, *Murr. in Comment. Gott. a.*  
1784.

CAL. simple.

CAPS. oblong, wreathed, 5-cell'd.

SEEDS many, disposed in cells, in a double order.

OBS. *The valves after maturity are divaricated even to the base, wing'd inwards by the partition.*

Ccc OR.

## ORDINES NATURALES.

(Natural Orders.)

1. THE great CREATOR in the beginning endued the *medullary* substance of Vegetables with principles productive of a difference in their *cortical* substance, whence arose as many individuals of different form, as there are Natural Orders.
  2. The Omnipotent mix'd these *classical* plants (1) with each other, whence arose as many *Genera*, of these orders, as there were thence produced plants.
  3. Nature mix'd these *Generic* plants, (2) whence arose as many congeneric *Species*, as now exist.
  4. Accident mix'd these *Species*, (3) whence all the *Varieties*, which occasionally occur.
  5. This is evinced (1-4) by the laws of the Creator, from simple to more compound.—From the laws of Nature in the production of Mules.—From the laws of Man from our observations a posteriori.
  6. The Botanist will observe these laws, as much as possible.  
The Scholar reduces *Varieties* to *Species*. Since specific knowledge is the foundation of solid knowledge.  
The Botanist reduces the *Species* to *Genera*, whence the fraternal affinity of plants appears.  
The Veteran endeavours to reduce the *Genera* to *Orders*, from a previous knowledge of the nature of plants, (this however is difficult, from our present ignorance) as for example. *Tamarix*,—*Cactus*, unless *Ecaumuria*. *Actæa*,—*Peonia*, unless *Cimicifuga*.
  9. The multitude of *Genera* is a burthen to the memory, relievable by System. System points out a plant without a Preceptor. The Natural Orders do not constitute a method without a Key. An artificial method therefore alone enables us to distinguish plants, since a key to a natural method is scarcely possible.
  10. Natural Orders enable us to judge of the nature of plants; artificial ones enable us to distinguish them.
  11. He who constructs the Natural *Genera*, brings into view the Natural Orders, where it can be done.
- He, who instead of a natural method disposes the plants according to the fragments of it, and rejects the artificial method, seems to me to resemble a man, who should demolish a commodious house built upon pillars, and in its place endeavour to erect another, unable to construct a pedestal, or to turn an arch.
- Obs. The following Natural Orders are well elucidated in Milne's Botanical Dictionary.

OR-

## ORDINES NATURALES.

*( Natural Orders. )*

- |  |   |
|--|---|
| 1. Palmæ, <i>Palms.</i>                  | 30. Contortæ, <i>Contorted.</i>         |
| 2. Piperitæ, <i>Peppers.</i>             | 31. Vepreculæ, <i>Brakes.</i>           |
| 3. Calamariæ, <i>Reeds.</i>              | 32. Papilionacæ, <i>Papilionaceous.</i> |
| 4. Gramina, <i>Grasses</i>               | 33. Lomentacæ, <i>Dyer's plants.</i>    |
| 5. Tripetaloidæ, <i>3-petal-like.</i>    | 34. Cucurbitacæ, <i>Gourds.</i>         |
| 6. Ensatæ, <i>Sword-like.</i>            | 35. Senticosæ, <i>Bryers.</i>           |
| 7. Orchidæ, <i>Orchises.</i>             | 36. Pomacæ, <i>Pome-bearing.</i>        |
| 8. Scitamineæ, <i>Dainties</i>           | 37. Columniferæ, <i>Column-bearing</i>  |
| 9. Spathacæ, <i>Spathed.</i>             | 38. Tricocæ, <i>Three-grain'd.</i>      |
| 10. Coronariæ, <i>Garlands.</i>          | 39. Siliquosæ, <i>Siliquous.</i>        |
| 11. Sarmentosæ. <i>Climbers.</i>         | 40. Personatæ, <i>Masks.</i>            |
| 12. Holeracæ, <i>Potherbs.</i>           | 41. Asperifoliæ, <i>Rough-leaved</i>    |
| 13. Succulentæ, <i>Succulent.</i>        | 42. Verticillatæ, <i>Verticil'd.</i>    |
| 14. Gruinales, <i>Grainbils.</i>         | 43. Dumosæ, <i>Bushy.</i>               |
| 15. Inundatæ, <i>Immersed.</i>           | 44. Sepiariæ, <i>Hedge-plants.</i>      |
| 16. Calycifloræ, <i>Calyx-blossom'd.</i> | 45. Umbellatæ, <i>Umbel'd.</i>          |
| 17. Calycanthemæ, <i>Calyx-flower'd</i>  | 46. Hederacæ, <i>Ivies</i>              |
| 18. Bicornes, <i>Two-born'd.</i>         | 47. Stellatæ, <i>Star'd.</i>            |
| 19. Hesperideæ, <i>Hesperian.</i>        | 48. Aggregatæ, <i>Aggregate.</i>        |
| 20. Rotacæ. <i>Wheel'd.</i>              | 49. Compositæ, <i>Compound.</i>         |
| 21. Preciæ, <i>Early.</i>                | 50. Amentacæ, <i>Amentaceous.</i>       |
| 22. Caryophyllæ, <i>Cloves.</i>          | 51. Coniferæ, <i>Coniferous.</i>        |
| 23. Trihilatæ, <i>Three-biled.</i>       | 52. Coadunatæ, <i>Congregated.</i>      |
| 24. Corydales, <i>Helmet-like.</i>       | 53. Scabridæ, <i>Rugged.</i>            |
| 25. Putamineæ, <i>Shell'd.</i>           | 54. Miscellanæ. <i>Misellaneous.</i>    |
| 26. Multifiliquæ, <i>Many-podded.</i>    | 55. Filices, <i>Ferns.</i>              |
| 27. Rhoeadæ, <i>Poppies.</i>             | 56. Musci, <i>Mosses.</i>               |
| 28. Luridæ, <i>Lurid.</i>                | 57. Algæ. <i>Flags.</i>                 |
| 29. Campanacæ, <i>Bell'd.</i>            | 58. Fungi, <i>Funguses.</i>             |

## ORDINES NATURALES.

( *Natural Orders.* )

## I. PALMÆ.

( *Palms.* )

a. Cocos.	1223
Phoenix.	1224
Elate.	1226
Areca.	1225
Caryota.	1228
Cycas.	1222
Corypha.	1221
Borassus.	1220
Chamærops.	1219
Zamia.	1227
b. Stratiotes.	687
Hydrocharis.	1026
Vallisneria.	1097

## II. PIPERITÆ.

( *Peppers.* )

Zostera.	1032
Ambrosinia.	1238
Arum.	1028
Calla.	1030
Dracontium.	1029
Pothos.	1031
Orontium.	435
Acorus.	434
Piper.	43
Saururus.	464

## III. CALAMARIÆ.

( *Reeds.* )

Sparganium.	1041
Typha.	1040
Eriophorum.	68

Scirpus.	67
Carex.	1046.
Cyperus.	66
Schoenus.	65

## IV. GRAMINA.

( *Grasses.* )

Bobartia.	71
Lygeum.	70
Coix.	1043
Zea.	1042
Tripsacum.	1044
Apluda.	1147
Ægilops.	1150
Ischæmum.	1148
Triticum.	99
Secale.	97
Hordeum.	98
Elymus.	96
Lolium.	95
Nardus.	69
Anthoxanthum.	42
Dactylis.	86
Cenchrus.	1149
Cynosurus.	87
Cinna.	15
Andropogon.	1145
Saccharum.	73
Arundo.	93
Lagurus.	92
Stipa.	90
Aristida.	94
Avena.	91
Bromus.	89
Festuca.	88

Poa.

Poa.	83	Moræa.	60
Brixa.	84	Iris.	59
Uniola.	85	Xyris.	64
Holcus.	1146	Eriocaulon.	100
Melica.	82	Callisia.	63
Aira.	81	Cammelina.	62
Zizania.	1062	Tradescantia.	391
Pharus.	1063	Pontederia.	399
Olyra.	1045		
Oryza.	448		
Paspalum.	75		
Phalaris.	74		
Panicum.	76		
Milium.	79		
Agrostis.	80		
Phleum.	77		
Alopecurus.	78		
Cornucopiæ.	72		

### V. TRIPETALOIDEÆ. (3-Petal-like.)

Calamus.	436
Flagellaria.	450
Aphyllanthes.	408
Juncus.	437
Triglochin.	453
Scheuchzeria.	452
Butomus.	506
Alisma.	460
Sagittaria.	1067

### VI. ENSATÆ. (Sword-like.)

Ferraria.	1018
Sisyrinchium.	1017
Crocus.	55
Ixia.	56
Wachendorfia.	61
Antholyza.	58
Gladiolus.	57

### VII. ORCHIDEÆ. (Orchises.)

Orchis.	1009
Satyrium.	1010
Serapias.	1012
Ophrys.	1011
Arethusa.	1014
Cypripedium.	1015
Limodorum.	1013
Epidendron.	1016

### VIII. SCITAMINEÆ. (Dainties.)

Musa.	1141
Thalia.	8
Maranta.	5
Costus.	3
Alpinia.	4
Amomum.	2
Curcuma.	6
Kæmpferia.	7
Canna.	1

### IX. SPATHACEÆ. (Spathed.)

Allium.	409
Hæmanthus.	400
Amaryllis.	406
Pancratium.	404
Narcissus.	403
Ga-	

Galanthus.	401	Ruscus.	1139
Leucojum.	402	Asparagus.	424
Crinum.	405	Medeola.	455
Bulbocodium.	407	Trillium.	456
Colchicum.	457	Paris.	50
Gethyllis.	590	Smilax.	1120

## X. CORONARIÆ. (Garlands.)

Polianthes.	426
Asphodelus.	521
Albuca.	416
Cyanella.	420
Ornithogalum.	418
Scilla.	419
Hyacinthus.	427
Alethris.	428
Aloe.	430
Yucca.	429
Agave.	431
Bromelia.	395
Tillandsia.	396
Burmannia.	397
Hypoxis.	417
Hemerocallis.	433
Anthericum.	422
Veratrum.	1144
Melanthium.	454
Helonias.	458
Fritillaria.	411
Lilium.	410
Tulipa.	415

## XI. SARMENTACEÆ. (Climbers.)

Gloriosa.	413
Erythronium.	414
Alstromeria.	432
Uvularia.	412
Convallaria.	425

Dioscorea.	1122
Tamus.	1119
Rajania.	1121
Menispermum.	1131
Centella.	1051
Cissampelos.	1138
Aristolochia.	1022
Asarum.	589
Cytinus.	1232

## XII. HOLORACEÆ. (Potherbs.)

a. Blitum.	14
Spinacia.	1112
Atriplex.	1153
Chenopodium.	309
Beta.	310
Salsola.	311
Anabasis.	312
Salicornia.	10
Basella.	382
Rivina.	162
b. Calligonum.	680
Petiveria.	459
Ceratocarpus.	1035
Corispermum.	12
Callitriche.	13
c. Axyris.	1047
d. Illecebrum.	290
Herniaria.	308
Polycnemum.	53
Camphorosma.	164
e. Begonia.	1156
Rumex.	451
Rheum.	506

Atra-

Atraphaxis.	449
Polygonum.	495
Coccoloba	496
f. Nyssa.	1163
Mimusops.	478
Rhizophora.	592
Bucida.	541
Anacardium.	520
g. Laurus.	503
Tinus.	504
Winterania.	598
Heisteria.	535

## XIII. SUCCULENTÆ.

( *Succulent.* )

a. Cactus.	613
Mesembryanthemum.	628
Aizoon.	629
Tetragonia.	627
Galenia.	492
Tamarix.	375
Reaumuria.	686
Neurada.	587
b. Sempervivum.	912
Septas.	465
Penthorum.	580
Sedum.	579
Rhodiola.	1124
Tillea.	177
Crassula.	392
Cotyledon.	578
Suriana.	581
c. Nama.	371
Trianthema.	537
Sesuvium.	624
Portulaca.	603
Claytonia.	287
d. Adoxa.	501
Chrysosplenium.	558
Saxifraga.	559
Mitella.	561
Tiarella.	560
Hydrangea.	557

## XIV. GRUINALES.

( *Crainbils.* )

Linum.	389
Aldrovanda.	390
Drosera.	391
Oxalis.	582
Geranium.	832
Guajacum.	518
Quassia.	529
Zygophyllum.	530
Tribulus.	532
Fagonia.	531
Averrhoa.	576

## XV. INUNDATÆ.

( *Immersed.* )

Zanichellia.	1034
Ruppia.	175
Potamogeton.	174
Myriophyllum.	1066
Ceratophyllum.	1065
Proserpinaca.	102
Elatine.	502
Hippuris.	11

## XVI. CALYCIFLORÆ.

( *Calyx-blossom'd.* )

Osyris.	1101
Trophis.	1103
Hippophae.	1106
Elæagnus.	159

## XVII. CALYCANTHEMÆ.

( *Calyx-flower'd.* )

Epilobium.	471
Oenothera.	469
Gaura.	470
Jussiea.	538
Ludwigia.	153

Isnarda.

Isnarda.	156
Ammannia.	155
Grisea.	474
Mentzelia.	670
Glaux.	291
Peplis.	446
Frankenia.	445
Lythrum.	604
Melastoma.	544
Osbeckia.	467
Rhexia.	468

## XVIII. BICORNES.

(Two-horn'd.)

a. Kalmia.	545
Ledum.	546
Azalea.	212
Rhododendrum.	548
Andromeda.	549
Epigea.	550
Gaultheria.	551
Pyrola.	554
Erica.	484
Blæria.	139
Clethra.	553
Arbutus.	552
Vaccinium.	483
Royena.	555
Diospyros.	1161
Myrsine.	269
b. Halefia.	596
Styrax.	595
Cyprus.	901
Garcinia.	594

## XIX. HESPERIDEÆ.

(Hesperian.)

a. Eugenia.	616
Psidium.	915

Myrtus.	617
Caryophyllus.	669
b? Philadelphus.	614

## XX. ROTACEÆ.

(Wheel'd.)

Trientalis.	461
Centunculus.	145
Anagallis.	206
Lyfimachia.	205
Phlox.	214
Exacum.	141
Gentiana.	322
Swertia.	321
Chironia.	255
Sarothra.	383
b. Ascyrum.	903
Hypericum.	902
Cistus.	673

## XXI. PRECIÆ.

(Early.)

Primula.	197
Androsace.	196
Diapensia.	194
Aretia.	195
Dodecatheon.	200
Cortusa.	198
Soldanella.	199
Cyclamen.	201
b. Limosella.	176
? c. Menyanthes.	202
Hottonia.	203
Samolus.	222

## XXII. CARYOPHYLLEI.

(Cloves.)

Dianthus.	565
Saponaria.	564
Gy-	

Gypsophila.	563
Velezia.	447
Drypis.	381
Silene.	567
Cucubalus.	566
Lychnis.	584
Agrostemma.	581
b. Spergula.	586
Cerastium.	585
Arenaria.	569
Stellaria.	568
Alfane.	380
Holosteum.	104
Cherleria.	570
Sagina.	175
Moehringia.	494
Bufonia.	168
c. Pharnacium.	379
Glinus.	610
Mollugo.	106
Polycarpon.	105
Minuartia.	107
Queria.	108
Ortega.	51
Loeflingia.	52
d. Scleranthus.	562
f. Polypremum.	137

### XXIII. TRIHILATÆ.

(*Three-biled.*)

a. Melia.	527
Trichilia.	523
b. Malpighia.	572
Banisteria.	573
Triopteris.	574
Acer.	1155
Æsculus.	462
c. Staphylea.	374
Sapindus.	499
Paullinia.	497
Cardiospermum.	498
Tropæolum.	466

D d d

### XXIV. CORYDALES.

(*Helmet-like.*)

Melianthus.	795
Monnieria.	850
Epimedium.	148
Hypecoon.	171
Fumaria.	849
Leontice.	423
Impatiens.	1008
Utricularia.	31
Pinguicula.	30

### XXV. PUTAMINEÆ.

(*Shell'd.*)

Cleome.	826
Crataeva.	599
Morisona.	542
Capparis.	762
? Crescentia.	762
? Marcgravia.	540

### XXVI. MULTISILIQUEÆ.

(*Many-podded.*)

a. Pæonia.	678
Aquilegia.	684
Aconitum.	682
Delphinium.	681
b. Dictamnus.	622
Ruta.	623
Peganum.	601
c. Nigella.	685
Garidella.	571
Isopyrum.	701
Trollius.	700
Helleborus.	702
Caltha.	703
Ranunculus.	699
Myosurus.	394
Adonis.	698
d. Anemone.	694

Atta-

Atragene.	695	Polemonium.	217
Clematis.	696	Campanula.	218
Thalictrum.	697	Roëlla.	219
Acæa.	644	Phyteuma.	220

## XXVII. RHOEADÆ.

( *Poppies.* )

Bocconia.	691
Argemone.	649
Chelidonium.	647
Papaver.	648
Sanguinaria.	645
Podophyllum.	646

## XXVIII LURIDÆ.

( *Lurid.* )

Brovallia.	773
Celsia.	757
Verbascum.	245
Digitalis.	758
Sesamum.	782
Pedaliū.	794
Nicotiana.	248
Atropa.	249
Hyoscyamus.	247
Datura.	246
Physalis.	250
Capficum.	252
Solanum.	251
Ellisia.	244
Strychnos.	253
Lycium.	262
Cestrum.	261
Catebæa	130

## XXIX. CAMPANACÆ.

( *Bell'd.* )

Evolvulus.	385
Convolvulus.	215
Ipomea.	216

Trachelium.	221
Jasione.	1005
Lobelia.	1006
Viola.	1007

## XXX. CONTORTÆ.

( *Contorted.* )

Genipa.	240
Gardenia.	296
Cerbera.	294
Rauvolfia.	293
Macrocnemum.	225
Vinca.	295
Nerium.	297
Echites.	299
Plumieria.	298
Tabernæmontana.	301
Cameraria.	300
Periploca.	303
Apocynum.	305
Cynanchum.	304
Ceropegia.	302
Asclepias	306
Stapelia.	307

## XXXI. VEPRECUŁÆ.

( *Brakes.* )

Dais.	540
Quisqualis.	539
Dirca.	486
Daphne.	485
Gnidia.	417
Lachnæa.	490
Passerina.	489
Stellera.	488
Thesium.	292

## XXXII. PA-

## XXXII. PAPILIONACEÆ.

*( Papilionaceous. )*

Medicago.	899
Trigonella.	898
Trifolium.	896
Lotus.	897
Anthyllis.	864
Crotalaria.	162
Anonis.	863
Clitoria.	869
Dolichos.	867
Phaseolus.	866
Glycine.	868
Pisum.	870
Lathyrus.	872
Orobus.	871
Vicia.	873
Ervum.	874
Cicer.	875
Coronilla.	883
Ornithopus.	884
Hippocrepis.	885
Scorpiurus.	886
Biferrula.	893
Astragalus.	892
Phaca.	891
Glycyrrhiza.	882
Hedysarum.	887
Indigophora.	889
Galega.	890
Æschynomene.	888
Arachis.	876
Lupinus.	865
Ebenus.	895
Pforalea.	894
Colutea.	880
Cytisus.	877
Ulex.	881
Spartium.	858
Genista.	759
Borbonia.	857
Aspalathus.	860

Robinia.	879
Sophora.	508
Piscidia.	856
Anagyris.	509
Erythrina.	855
Amorpha.	861
Pterocarpus.	854
Nissolia.	853
Geoffrea.	878

## XXXIII. LOMENTACEÆ.

*( Dyer's plants. )*

Polygala.	851
Cercis.	510
Bauhinia.	511
Hymenæa.	512
Ceratonia.	1167
Mimosa.	1158
Gleditsia.	1159
Guilandina.	517
Poinciana.	515
Cæsalpinia.	416
Cassia.	514
Parkinsonia.	513
Adenanthera.	526
Hæmatoxylon.	525

## XXXIV. CUCURBITACEÆ

*( Gourds. )*

Gronovia.	282
Anguria.	1037
Elaterium.	1036
Sicyos.	1094
Melothria.	50
Bryonia.	1093
Cucurbita.	1091
Cucumis.	1092
Trichosanthes.	1089
Momordica.	1090
Fevillea.	1118
Passiflora.	1021

## XXXV. SEN-

## XXXV. SENTICOSÆ.

( *Bryers.* )

Alchimilla.	165
Aphanes.	166
Agrimonia.	607
Dryas.	637
Geum.	636
Sibbaldia.	393
Tomentilla.	635
Potentilla.	634
Comarum.	638
Fragaria.	633
Rubus.	632
Rosa.	631

## XXXVI. POMACEÆ.

( *Pome-bearing.* )

Spiræa.	630
Ribes.	281
Sorbus.	623
Cratægus.	622
Mespilus.	625
Pyrus.	626
b. Punica.	618
c. Chryfobalanus.	621
Prunus.	620
Amygdalus.	619

## XXXVII. COLUMNIFERÆ.

( *Column-bearing.* )

Malva.	841
Acæa.	840
Althæo	839
Lavatera.	842
Malope.	843
Melochia	829
Sida.	837
Napæa.	838
Pentapetes.	834

Bombax.	835
Adansonia	836
Gossypium.	845
Hibiscus.	846
Urena.	844
Triumfetta.	600
Heliocarpus.	606
Bixa.	654
Corchorus.	675
Waltheria.	827
Turnera.	376
Hermania.	828
Helicteres.	1025
Kleinhovia.	1024
Ayenia.	1020
Theobroma.	900
Grevia.	1026
Microcos.	662
Muntingia.	657
b. Camellia.	848
Thea.	668
Stevartia.	847
Tilia.	660
Kiggelaria.	1128

## XXXVIII. TRICOCCÆ.

( *Three-grain'd.* )

Cambogia.	650
Dalechampia.	1081
Plukenetia.	1080
Euphorbia.	609
Clusia.	1140
Andrachne.	1095
Phyllanthus	1050
Adelia.	1137
Croton.	1083
Thryallis.	533
Excœcaria.	1102
Cupania.	279
Tragia.	1048
Acalypha.	1082

Ja-

Jatropha.	1084	Sisymbrium.	813
Ricinus.	1085	Dentaria.	811
Hernandia.	1049	Cardamine.	812
Guettarda.	1064	Crambe.	825
Sterculia.	1086	Ifatis.	824
Hippomane.	1088		
Mura.	1087		
Carica.	1117		
Cliffortia.	1133		
Mercurialis.	1125		
Solandra.	1061		
Cneorum.	48		
Buxus.	1053		

## XL. PERSONATÆ.

( *Masks.* )

Chelone.	748
Cymbaria.	751
Antirrhinum.	750
Dodartia.	780
Bartfia.	739
Rhinanthus.	740
Pedicularis.	746
Euphrasia.	741
Melampyrum.	742
Mimulus.	783
Lathræa.	743
Orobanche.	779
Obolaria.	778
Martynia.	753
Craniolaria.	752
Torenia.	754
Scrophularia.	756
Gesneria.	749
Swalbea.	744
Duranta.	786
Columnea.	792
Besleria.	755
Gerardia.	747
Ruellia.	784
Justicia.	27
Dianthera.	28
Barleria.	785
Stemodia.	777
Petrea.	764
Bignonia.	759
Citharexylon.	760
Halleria.	761
Gmelina.	763
	Bon-

## XXXIX. SILIQUOSÆ.

( *Siliqueous.* )

Draba.	800
Subularia.	779
Lepidium.	801
Peltaria.	806
Clypeola.	807
Alyssum.	805
Iberis.	804
Cochlearia.	803
Thlaspi.	802
Biscutella.	808
Lunaria.	809
Ricotia.	810
Anastatica.	798
Vella.	797
Myagrum.	796
Bunias.	823
Raphanus.	822
Sinapis.	821
Brassica.	820
Turritis.	819
Arabis.	818
Cheiranthus.	815
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## XLIII. DUMOSÆ.

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*This order does not yet satisfy me,  
it should be further examined.*

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## XLVI. HEDERACEÆ.

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Scoly-

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Andryala.	915
Crepis.	914
Hieracium.	913
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Sonchus.	908
Picris.	907
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(*Disk-like.*)

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Cineraria.	957
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Doronicum.	959
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Chrysocoma.	939
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Leysera.	963
Santolina.	942
Anthemis.	970
Anacyclus.	969
Cotula.	968
Athanasia.	943
Achillea.	971
Cacalia.	933
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Eupatorium.	935
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Helenium.	962
Othonna.	933
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Arctotis.	991
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*e. OPPOSITIFOLIÆ.*  
(*Opposite-leaved.*)

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Sigesbeckia.	973
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Rudbeckia.	980
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Chrysogonum.	958
Melampodium.	989
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Pectis.	965
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Zinnia.	974
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Iva.	1059
Parthenium.	1058
Ambrosia.	1057
Xanthium.	1056
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(*Amentaceous.*)

Salix.	1098
Populus.	1123
Platanus.	1075
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Carpinus.	1073
Betula.	1052
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LI. CONIFERÆ.  
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Pinus.	1077
Cupressus.	1079
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(*Congregated.*)

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<i>c.</i> Pistia.	1023
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*d.* Co-

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? Empetrum.	1100	Sphagnum.	1187
<i>e.</i> Achyranthes.	228	Phascum.	1189
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Amaranthus.	1060	Splachnum.	1191
Iresine.	1113	Polytrichum.	1192
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DUBII

DUBII *Etiamnum* ORDINES.*(Orders as yet dubious.)*

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Burseria.	440	Hydrophyllum.	204
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Calycanthus.	639	Jambolifera.	479
Calophyllum.	658	Illicium.	611
Camocladia.	49	Itea.	275
Cinchona.	228	Krameria.	161
Clusia.	1154	Lagerstromia.	667
Connarus.	830	Lagoecia.	285
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Penæa.	132	Sibtorpia.	775
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Acróstichum.	741	Allophýlus.	255
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Anéthum	194	Artédia	179
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Antirrhinum	412	Áster	558
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543

Barringtóna

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407

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202

Básfia

321

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683

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279

Befária

322

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651

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Bergéra

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Bergia

313

Besléria

415

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396

Bétula

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545

Bignónia

418

Biscutélla

448

Biserrula

510

Bíxa

358

Bládhia

144

Blæria

72

Blakéa

322

Blásfia

748

Bléchnum

741

Blítum

8

Bobártia

42

Boccónia

321

Boerhavia

7

Bolétus,

750

Bómbax

471

Bóntia

434

Borágo

102

Boráflus

753

Borbónia

490

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169

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750

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Cállá	619	Catanánche.	537
Callicárpa	70	Catefbæa	69
Callígonum	371. 768	Catúrus.	682
Calíffia	37	Caúcalis.	179
Callítriche	8	Ceanóthus.	142
Calophýllum	361	Cecrópia.	678
Calodéndron	763	Cédrela.	149
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Canarína	236	Centúnculus.	75
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Cárex	635	Chálcas	286
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Carpínus	655	Chenoléa	761
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F f f

Chi

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Chondrilla	531	Códon	283
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AN  
ALPHABETICAL CATALOGUE  
OF  
ENGLISH AND SCOTCH NAMES  
OF  
PLANTS,

FROM THE MOST APPROVED BOTANICAL WRITERS,

REFER'D TO THEIR RESPECTIVE GENERA.

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N.B. *The Latin names in common use, as Anemone, Angelica, Azalea, &c. are not inserted in this catalogue (as they are to be found in the preceding Index) except where they have by custom been misapply'd; as Althæa frutex for Hibiscus, and wild Angelica for Aegopodium.*

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M, DCC, LXXXVII.



# ENGLISH AND SCOTCH NAMES

OF

## P L A N T S.

### A.

Abele, <i>Papulus</i>	Aiaternus, Bastard, <i>Phylica</i>
Abelmosk, <i>Hibiscus</i>	Alder, <i>Betula</i>
Acacia, <i>Mimosa</i>	Alder, Black or Berry-bearing, <i>Rhamnus</i>
Acacia, false, <i>Robinia</i>	Ale-coft, <i>Tanacetum</i>
Acacia, German, <i>Prunus</i>	Ale-hoof, <i>Glechoma</i>
Acacia, three-thorned, <i>Gleditsia</i>	Alexanders, <i>Smyrnum</i>
Acajou, <i>Anacardium</i>	Alkali, <i>Salicornia</i>
Aconite, <i>Aconitum</i>	Alkanet, <i>Lithospermum</i>
Aconite, Winter, <i>Helleborus</i>	Alkekengi, <i>Physalis</i>
Adam's Apple, <i>Citrus</i>	All-good, <i>Chenopodium</i>
Adam's Needle, <i>Yucca</i>	All-heal, Clowns, <i>Stachys</i>
Adder's-wort, <i>Polygonum</i>	All-heal, Hercules's, <i>Pastinaca</i>
Adder's Tongue, <i>Ophioglossum</i>	All-heal, Hercules's, <i>Heracleum</i>
Adragant, Gum, see Tragacanth	All-feed, <i>Linum</i>
Agaric, <i>Agaricus</i>	All-spice, <i>Myrtus</i>
Agnus castus, <i>Vitex</i>	Alligator Pear, <i>Laurus</i>
Agrimony, <i>Agrimonia</i>	Almond, <i>Amygdalus</i>
Agrimony, Hemp, <i>Empatorium</i>	Almond, African, <i>Brabejum</i>
Agrimony, Bastard Hemp, <i>Ageratum</i>	Almond, Ethiopian, <i>Brabejum</i>
Agrimony, Naked-headed Hemp, <i>Verbesina</i>	Aloe, American, <i>Agave</i>
Agrimony, Water Hemp, <i>Bidens</i>	Aloe, Water, <i>Stratiotes</i>
Ague Tree, <i>Laurus</i>	Althæa frutex, <i>Hibiscus</i>
Aikraw, <i>Lichen serot</i>	Alysson, rough-leaved, <i>Subularia</i>
	Amaranth, <i>Amaranthus</i>
	Amaranth, Globe, <i>Gomphrena</i>
	Amber Tree, <i>Anthospermum</i>
	Amellus

Amellus of Virgil, *Aster*  
 Amomum Plinii, *Solanum*  
 Amomum, German, *Sisan*  
 Ananas, *Bromelia*  
 Angelica, Berry-bearing, *Aralia*  
 Angelica, Wild, *Aegopodium*  
 Angelica Tree, *Aralia*  
 Anise, *Pimpinella*  
 Anotta, *Bixa*  
 Apeiba of the Brasilians, *Sloanea*  
 Apple, *Pyrus*  
 Apple, Adam's *Citrus*  
 Apple, Blad, *Cactus*  
 Apple, Custard, *Annona*  
 Apple, Love, *Solanum*  
 Apple, Mad, *Solanum*  
 Apple, Male Balsam, *Momordica*  
 Apple, May, *Podophyllum*  
 Apple, Pine, *Bromelia*  
 Apple, Purple, *Annona*  
 Apple, Soap, *Sapindus*  
 Apple, Sour, *Annona*  
 Apple, Star, *Chrysophyllum*  
 Apple, Sugar, *Annona*  
 Apple, Sweet, *Annona*  
 Apple, Thorn, *Datura*  
 Apple, Water, *Annona*  
 Apricot, *Prunus*  
 Arbor Vitæ, *Thuja*  
 Arbutus, Trailing, *Epigæa*  
 Arcel, *Lichen omph*  
 Ar-nuts, *Avena elat*  
 Archangel, *Lamium*  
 Archangel, Baulm-leav'd, *Melittis*  
 Archangel, Yellow, *Galeopsis*  
 Arrowhead, *Sagittaria*  
 Arrow-headed Grass, *Triglochin*  
 Arrow-root, Indian, *Maranta*  
 Arse-smart, *Polygonum*  
 Artichoke, *Cynara*  
 Artichoke, Jerusalem, *Helianthus*  
 Arum, African, *Calla*  
 Arum, Floating, *Orontium*  
 Asarabacca, *Asarum*

Ash, *Fraxinus*  
 Ash, Mountain, *Sorbus*  
 Ash, Poison, *Rhus*  
 Ash-weed, *Aegopodium*  
 Asparagus, Climbing, African  
*Medeola*  
 Asp, or Aspen Tree, *Populus*  
 Asphodel, *Asphodelus*  
 Asphodel, African, *Anthericum*  
 Asphodel, Lily, *Hemerocallis*  
 Asphodel, Lily, *Crinum*  
 Asses Cucumber, *Momordica*  
 Atamasco Lily, *Amaryllis*  
 Avens, *Geum*  
 Avocado, Pear, *Laurus*  
 Auricula, *Primula*  
 Auricula, Borrage-leav'd, *Verbascum*  
 Ax-vetch, see Hatchet-vetch  
 Azarole, *Cratægus*  
 Azerira, *Prunus*

## B.

Balaustine. *Punica*  
 Balm, see Baulm  
 Balm of Gilead, false, *Dracoccephalon*  
 Balsam, *Impatiens*  
 Balsam of Tolu, *Toluifera*  
 Balsam Apple, Male, *Momordica*  
 Balsam Tree, *Clusia*  
 Balsam Tree, *Pistacia*  
 Balsam Tree, *Copaifera*  
 Balsamine, Female, *Impatiens*  
 Bâmbu Cane, *Arundo*  
 Banana, *Musa*  
 Bane-berries, *Aetæa*  
 Banian Tree, *Ficus*  
 Bark, True Jesuit's, *Cinchona*  
 Bark, False Jesuit's, *Iva*  
 Bark, Eluthera, *Clusia*  
 Bark, Winter's, *Wintera*  
 Barley, *Hordeum*

Barren-

- Barren-wort, *Epimedium*  
 Basetrete Trefoil, *Cytisus*  
 Basil, *Ocimum*  
 Basil, Field, *Clinopodium*  
 Basil, American Field, *Monarda*  
 Basil, Syrian Field, *Ziziphora*  
 Basil, Stone, *Thymus*  
 Basil, Wild, *Thymus*  
 Batchelor's Buttons, *Lychnis*  
 Batchelor's Pear, *Solanum*  
 Baulm, *Melissa*  
 Baulm, Bastard, *Melittis*  
 Baulm, Moldavian, *Dracocephalum*  
 Baulm, Molucca, *Molucella*  
 Baulm, Turkey, *Dracocephalum*  
 Bay, *Laurus*  
 Bay, Loblolly, *Gordonia*  
 Bay, Rose, *Nerium*  
 Bay, Dwarf Rose, *Rhododendrum*  
 Bay, Mountain Rose, *Rhododendrum*  
 Bay, Sweet-flowering, *Magnolia*  
 Bay Plumb, *Psidium*  
 Bead Tree, *Melia*  
 Bean, *Vicia*  
 Bean, Bog, *Menyanthes*  
 Bean, white, *Cratægus*  
 Bean, Kidney, *Phaseolus*  
 Bean Tree, Kidney, *Glycine*  
 Bean Tree of America, *Erythrina*  
 Bean Tree, Binding, *Mimosa*  
 Bean Caper, *Zygophyllum*  
 Bean Trefoil, *Cytisus*  
 Bean Trefoil, Stinking, *Anagyris*  
 Bear-berties, *Arbutus*  
 Bear-bind, *Convolvulus*  
 Bear's-breach, *Acanthus*  
 Bear's-ear, *Primula*  
 Bear's-ear, Sanicle, *Cortusa*  
 Bear's-foot, *Helleborus*  
 Beard, Old Man's, *Clematis*  
 Beech, *Fagus*  
 Beet, *Beta*  
 Bee-flower, *Ophrys*  
 Behen, White, *Cucubalus*  
 Bell-flower, *Campanula*  
 Bells Canterbury, *Campanula*  
 Bedstraw, *Galium*  
 Bell-Pepper, *Capficum*  
 Belladonna Lily, *Amaryllis*  
 Belvidere, *Chenopodium*  
 Bellyach-weed, *Fatrophia*  
 Benjamin Tree, *Laurus*  
 Bennet, Herb, *Geum*  
 Berberry, *Berberis*  
 Bermudiana, *Sisyrinchium*  
 Betony, *Betonica*  
 Betony, Paul's, *Veronica*  
 Betony, Water, *Scrophularia*  
 Big, *Hordeum*  
 Bilberry, *Vaccinium*  
 Bindweed, *Convolvulus*  
 Bindweed, Black, *Tamus*  
 Bindweed, Rough, *Smilax*  
 Birch, *Betula*  
 Birch of Jamaica, *Pistacia*  
 Bird-cherry, *Prunus*  
 Bird-pepper, *Capficum*  
 Bird's Eye, *Adonis*  
 Bird's Foot, *Ornithopus*  
 Bird's Foot Trefoil, *Lotus*  
 Bird's Nest, *Ophrys*  
 Bird's Nest, Purple, *Orchis*  
 Birk, *Betula*  
 Birth-wort, *Aristolochia*  
 Bishop's-weed, *Ammi*  
 Bistort, *Polygonum*  
 Bitter-gourd, *Cucumis*  
 Bitter-sweet, *Solanum*  
 Bitter-vetch, *Ervum*  
 Bitter-vetch, *Orobis*  
 Bitter-vetch, Jointed podded, *Ervum*  
 Bitter-wort, *Gentiana*  
 Blackberry, *Rubus*  
 Blad Apple, *Cætus*  
 Bladder Nut, *Staphylæa*  
 Bladder Nut, African, *Royena*  
 Bladder

Bladder Nut, Laurel-leaved, *Ilex*  
 Bladder Senna, *Colutea*  
 Bladder Senna, Jointed podded,  
*Coronilla*  
 Blessed Thistle, *Cnicus*  
 Blindman's Ball, *Lycoperdon bov*  
 Blinks, *Montia*  
 Blite, *Blitum*  
 Blite, *Amaranthus*  
 Blood-flower, *Hæmanthus*  
 Blood-wood, *Hæmatoxylon*  
 Blood-wort, *Rumex*  
 Blue-bonnets, *Centaurea cyan*  
 Blue-bottle, *Centaurea*  
 Bog-bean, *Menyanthes*  
 Bogberries, *Vaccinium*  
 Bogwhorts, *Vaccinium*  
 Bonduc, *Guilandina*  
 Bonnet Pepper, *Capsicum*  
 Bore-cole, *Brassica*  
 Borrage, *Borrage*  
 Bottle-flower, *Centaurea*  
 Box, *Buxus*  
 Box, African, *Myrsine*  
 Box, Low, *Polygala*  
 Boxthorn, *Lycium*  
 Brackens, *Pteris*  
 Brakes, *Pteris*  
 Bramble, *Rubus*  
 Brank, *Polygonum*  
 Brank Ursine, *Acanthus*  
 Brassletto, *Cæsalpina*  
 Break-stone, *Saxifraga*  
 Break-stone, Parsley, *Aphanes*  
 Briar, Sweet, *Rosa*  
 Briar, Wild, *Rosa*  
 Brimstone-wort, *Peucedanum*  
 Bristol, Flower of, *Lychnis*  
 Broccoli, *Brassica*  
 Brooklime, *Veronica*  
 Broom, *Spartium*  
 Broom, African, *Aspalathus*  
 Broom, Dyer's, *Genista*  
 Broom, Dwarf, *Genista*

Broom, Single-seeded, *Genista*  
 Broom Rape, *Orobanchæ*  
 Broom Rape, with great Purple  
 Flowers, *Lathræa*  
 Brown-wort, *Scrophularia*  
 Brown-wort, *Prunella*  
 Bryony, *Bryonia*  
 Bryony, Black, *Tamus*  
 Buckler, Mustard, *Biscutella*  
 Bucks-horn, Plantain, *Plantago*  
 Bucks-horn, Warted, *Cochlearia*  
 Buck-thorn, *Rhamnus*  
 Buck-thorn, Sea, *Hippophaë*  
 Buck-wheat, *Polygonum*  
 Bugbean, see Bogbean  
 Bugle, *Ajuga*  
 Buglofs, *Anchusa*  
 Buglofs, Small wild, *Asperuge*  
 Buglofs, Viper's, *Echium*  
 Bullace Tree, *Chrysohyllum*  
 Buliace Tree, *Prunus*  
 Burdock, *Arctium*  
 Burdock, Lesser, *Xanthium*  
 Bur-Marygold, *Bidens*  
 Burnet, Garden, *Poterium*  
 Burnet, Greater wild, *Sanguisorba*  
 Burnet Saxifrage, *Pimpinella*  
 Burning thorny Plant, *Euphorbia*  
 Bur Reed, *Sparganium*  
 Butcher's Broom, *Rufus*  
 Butter Burr, *Tussilago*  
 Butter-cups, *Renunculus bulb*  
 Butter-wort, *Pinguicula*  
 Button Tree, *Conocarpus*  
 Button Weed, *Spermacoce*  
 Button Wood, *Cephalanthus*

## C.

Cabbage, *Brassica*  
 Cabbage, Dog's *Theligonum*  
 Cabbage, Sea, *Crambe*  
 Cabbage Tree, *Cacalia*  
 Calabash, *Cucurbita*  
 Calabash Tree, *Crescentia*  
 Calamint,

- Calamint, *Melissa*  
 Calamint, Water, *Mentha*  
 Cale, *Brassica*  
 Cale, Sea, *Crambe*  
 Caltrops, *Tribulus*  
 Caltrops, Water, *Trapa*  
 Calve's Snout, *Antirrhinum*  
 Cammock, *Ononis*  
 Campeachy Wood, *Hæmatoxylon*  
 Camphire Tree, *Laurus*  
 Champion, *Angrostemma*  
 Champion, *Lychnis*  
 Champion, Viscous, *Silene*  
 Canary-grass, *Phalaris*  
 Candle of the Indians, see Kandel  
 Candleberry Myrtle, *Myrica*  
 Candy Carrot, *Athamanta*  
 Candy Lion's Foot, *Catananche*  
 Candy Tuft, *Iberis*  
 Candy Tuft Tree, *Iberis*  
 Cane or Reed, *Arundo*  
 Cane, Sugar, *Saccharum*  
 Canterbury Bells, *Campanula*  
 Caper-bush, *Capparis*  
 Caper, Bean, *Zygophyllum*  
 Caraway, *Carum*  
 Cardinal-flower, *Lobelia*  
 Carline Thistle, *Carlina*  
 Carnation, *Dianthus*  
 Carnation, Spanish, *Poinciana*  
 Carnation Tree, *Cacalia*  
 Carob Tree, *Ceratonia*  
 Carrot, *Daucus*  
 Carrot, Candy, *Athamanta*  
 Carrot, Deadly, *Thapsia*  
 Carui, *Carum*  
 Cashew-nut, *Anacardium*  
 Cassava, *Jatropha*  
 Cassia, Poets, *Osyris*  
 Cassidony, *Gnaphalium*  
 Cassiobury Bush, *Cassine*  
 Catchfly, *Silene*  
 Catmint, *Nepeta*  
 Cat's-foot, *Glechoma*  
 Cat's-foot Mountain, *Gnaphalium*  
 Cat's-tail, *Typha*  
 Caterpillars, *Scorpiurus*  
 Cauliflower, *Brassica*  
 Cedar, *Juniperus*  
 Cedar of Jamaica, Bastard, *Theobroma*  
 Cedar, White, *Cupressus*  
 Cedar of Bufaco, *Cupressus*  
 Cedar of Libanus, *Pinus*  
 Celandine, *Chelidonium*  
 Celandine, Lesser, *Ranunculus*  
 Celandine Tree, *Bocconia*  
 Celeriac, *Apium*  
 Celery, *Apium*  
 Centaury, *Centaurea*  
 Centaury, Lesser, *Gentiana*  
 Centerach, *Asplenium*  
 Chamomile, *Anthemis*  
 Champignon, *Agaricuscam*  
 Chardon, *Cynara*  
 Charlock, *Sinapi*  
 Charlock, White-flower'd, with  
     jointed Pods, *Rapbanus*  
 Chaste Tree, *Vitex*  
 Cheese Rennet, *Galium*  
 Cherry, *Prunus*  
 Cherry, Barbadoes, *Malpigia*  
 Cherry, Bird, *Prunus*  
 Cherry, Cornelian, *Cornus*  
 Cherry, Dwarf, *Lonicera*  
 Cherry, Hottentot, *Cassine*  
 Cherry, Winter, *Physalis*  
 Cherry, Winter, *Solanum*  
 Cherry of the Alps, *Lonicera*  
 Cherry Laurel, *Prunus*  
 Chervil, Garden, *Scandix*  
 Chervil, Wild, *Chærophylum*  
 Chestnut, *Fagus*  
 Chestnut, Horse, *Æsculus*  
 Chestnut, Indian Rose, *Mesua*  
 Chick Pease, *Cicer*  
 Chiches, *Cicer*  
 Chichling Vetch, *Lathyrus*  
     Chick-

- Chickweed, *Alfina*  
 Chickweed, African, *Mollugo*  
 Chickweed, Berry-bearing, *Cucubalus*  
 Chickweed, Great, *Stellaria*  
 Chickweed Mountain, *Moehringia*  
 Chickweed Mouse-ear, *Cerastium*  
 Chickweed, Small water, *Montia*  
 China Root, *Smilax*  
 China Rose *Hibiscus*  
 Chinquapin, *Fagus*  
 Chocolate-nut, *Theobroma*  
 Christmas Rose, *Helleborus*  
 Christopher, Herb, *Actæa*  
 Christ's-thorn, *Rhamnus*  
 Chrysanthemum, Bastard, *Silphium*  
 Chrysanthemum, Hard-seeded, *Osteospermum*  
 Ciboules, *Allium*  
 Cicely, Sweet, *Scandix*  
 Cinnamon Tree, *Laurus*  
 Cinnamon, White, *Laurus*  
 Cinquefoil, *Potentilla*  
 Cinquefoil, Marsh, *Comarum*  
 Cistus, Marsh, *Ledum*  
 Cistus, Lesser Marsh, *Andromeda*  
 Cistus, Nettle-leaved, *Turnera*  
 Cistus, Rape of, *Asarum*  
 Citron, *Citrus*  
 Citrul, *Cucurbita*  
 Cives, *Allium*  
 Clary, *Salvia*  
 Clary, Pyrænean, *Horminum*  
 Clivers, *Galium*  
 Cloud-berry, *Rebuscham*  
 Clove July Flower, *Dianthus*  
 Clove Tree, *Caryophyllus*  
 Clover, *Trifolium*  
 Clover, Dutch, *Trifolium*  
 Clown's Allheal, *Stachys*  
 Clown's Wound-wort, *Stachys*  
 Cob-nut, *Corylus*  
 Cock's-comb, *Celosia*  
 Cock's-comb, *Pedicularis*  
 Cock's-comb, Yellow, *Rhinanthus*  
 Cock's-head, *Hedysarum*  
 Cocoa-nut, *Cocoa*  
 Cocoa-plumb, *Chrysobalanus*  
 Codlin Tree, *Pyrus*  
 Codlins and Cream, *Epilobium*  
 Coffee Tree, *Coffea*  
 Cole-seed, *Brassica*  
 Cole-rape, *Brassica*  
 Cole-wort, *Brassica*  
 Cole-wort, Sea, *Crambe*  
 Cole-wort, Sea, *Convolvulus*  
 Coloquintida, *Cucumis*  
 Colt's-foot, *Tussilago*  
 Colt's-foot, Alpine, *Cacalia*  
 Colt's-foot, Foreign, *Cacalia*  
 Columbine, *Aquilegia*  
 Columbine Feathered, *Thalictrum*  
 Colutea, Jointed podded, *Coronilla*  
 Comphry, *Symphytum*  
 Confound, Greater, *Symphytum*  
 Confound Lesser, *Bellis*  
 Confound, Middle, *Ajuga*  
 Confound, Royal, *Delphinium*  
 Confound, Saracen's, *Solidago*  
 Confound, the True Saracen's, *Senecio*  
 Contrayerva, *Dorstenia*  
 Contrayerva of Hernandez, *Pasiflora*  
 Convall, Lily, *Convallaria*  
 Coral Tree, *Eriothrina*  
 Coral-wort, *Dentaria*  
 Coriander, *Coriandrum*  
 Cork Tree, *Quercus*  
 Cork, Indian, *Zeá*  
 Corn Flag, *Gladiolus*  
 Corn Marigold, *Chrysanthemum*  
 Corn Parsley, *Sison*  
 Corn Rocket, *Bunias*  
 Corn Rose, *Pavaver*  
 Corn Sallad, *Valeriana*

Cornel Tree, *Cornus*  
 Cornelian Cherry, *Cornus*  
 Costmary, *Tanacetum*  
 Cotton, *Gossypium*  
 Cotton, Lavender, *Santolina*  
 Cotton Tree, Silk, *Bombax*  
 Cotton Grass, *Eriophorum*  
 Cotton Weed, *Filago*  
 Coventry Bells, *Campanula*  
 Courbaril, *Hymenæa*  
 Cow quakes, *Briza*  
 Cowslip, *Primula*  
 Cowslip, American, *Dodecatheon*  
 Cowslip, Jerusalem, *Pulmonaria*  
 Cowslip, Mountain, *Pulmonaria*  
 Cow's Lungwort, *Verbaſcum*  
 Cow Pariſnep, *Heracleum*  
 Cow Weed, *Chærophylum*  
 Cow Wheat, *Melampyrum*  
 Coxcomb, ſee Cock's comb  
 Crab Tree, *Pyrus*  
 Crake-berries, *Empetrum*  
 Cranberries, *Vaccinium*  
 Crane's-bill, *Geranium*  
 Creeper, Virginian, *Hedera*  
 Crefs, *Lepidium*  
 Crefs, Indian, *Tropæolum*  
 Crefs, Sciatica, *Iberis*  
 Crefs, Spaniſh, *Vella*  
 Crefs, Swines, *Cochlearia*  
 Crefs, Wall, *Turritis*  
 Crefs, Warted, *Cochlearia*  
 Crefs, Water, *Sifymbrium*  
 Crofs, Winter, *Eriſyum*  
 Crofs Jeruſalem, *Lychnis*  
 Crofs, Knights, *Lychnis*  
 Crofs, Scarlet, *Lychnis*  
 Crofs-wort, *Valantia*  
 Crowberries, *Empetrum*  
 Crow-foot, *Ranunculus*  
 Crow-fick, *Conſerva riv*  
 Crown Imperial, *Fritillaria*  
 Cuckow-flower, *Cardamine*  
 Cuckow Pint, *Arum*

Cucumber, *Cucumis*  
 Cucumber, Affes, *Momordica*  
 Cucumber, Egyptian, *Momordica*  
 Cucumber, Serpent, *Trichosanthes*  
 Cucumber, Single-ſeeded, *Sicyos*  
 Cucumber, Small creeping, *Melothria*  
 Cucumber, Spirting, *Momordica*  
 Cucumber, Wild, *Momordica*  
 Cudweed, *Gnaphalium*  
 Cudweed, Baſtard, *Micropus*  
 Cullions, *Orchis*  
 Cullions, Soldier's, *Orchis*  
 Cumin, *Cuminum*  
 Cumin, Baſtard, *Lagæcia*  
 Cumin, Wild, *Lagæcia*  
 Cup Muſhroom, *Peziza*  
 Curran Tree, *Ribes*  
 Cuſhion Ladies, *Saxifrag*  
 Cuſhion, Sea, *Statice*  
 Cuſtard, Apple, *Annona*  
 Cypreſs, *Cupreſſus*  
 Cypreſs, Summer, *Chenopodium*

D.

Daffodil, *Narciffus*  
 Daffodil, Lily, *Amaryllis*  
 Daffodil, Lily, *Pancratium*  
 Daffodil, Sea, *Pancratium*  
 Daiſy, *Bellis*  
 Daiſy, Blue, *Globularia*  
 Daiſy, Globe, *Globularia*  
 Daiſy, Greater, *Chryſanthemum*  
 Daiſy, Middle, *Doronicum*  
 Daiſy, Ox-eye, *Chryſanthemu*  
 Dame's Violet, *Hesperis*  
 Damſon Tree, *Prunus*  
 Damſon Tree, *Chryſophyllum*  
 Dandelion, *Leontodon*  
 Dane-wort, *Sambucus*  
 Darnel, *Lolium*  
 Date Plumb, Indian, *Dioſſyros*  
 Date Tree, *Phœnix*

Day

Day Lily, *Hemerocallis*  
 Dead Nettle, *Lamium*  
 Dead Nettle, Yellow, *Galeopsis*  
 Deadly Carrot, *Thapsia*  
 Deadly Nightshade, *Atropa*  
 Devil in a bush, *Nigella*  
 Devil's Bit, *Scabiosa*  
 Devil's Bit, Yellow, *Leontodon*  
 Dewberry Bush, *Rubus*  
 Dier's Broom, *Genista*  
 Dier's Weed, *Reseda*  
 Dier's Weed, *Genista*  
 Dill, *Anethum*  
 Distaff Thistle, *Atractylis*  
 Distaff Thistle, *Carthamus*  
 Dittander, *Lepidium*  
 Dittany, *Origanum*  
 Dittany, Bastard, *Marrubium*  
 Dittany, White, *Dictamnus*  
 Dock, *Rumex*  
 Doctor Tinker's Weed, *Triosteum*  
 Dodder, *Cuscuta*  
 Dodder of Thyme, *Cuscuta*  
 Dog's Bane, *Apocynum*  
 Dog's Bane, *Asclepias*  
 Dog Berry, *Cornus*  
 Dog's Cabbage, *Theligonum*  
 Dog's Rue, *Scrophularia*  
 Dog's Stones, *Orchis*  
 Dog's Tooth, or Dog's Tooth  
     Violet, *Erythronium*  
 Dogwood, *Cornus*  
 Dogwood of Jamaica, *Erythrina*  
 Double Tongue, *Ruscus*  
 Dove's Foot, *Geranium*  
 Dragons, *Dracontium*  
 Dragon's, *Arum*  
 Dragon's Head, *Dracocephalum*  
 Dragon's Water, *Calla*  
 Dragon's Wort, *Artemisia*  
 Dragon, Gum, see *Tragacanth*  
 Dragon, Wild, *Artemisia*  
 Drop-wort, *Spiræa*  
 Drop-wort, Hemlock, *Oenanthe*

Drop-water, *Oenanthe*  
 Duck's-meat, *Lemna*  
 Duck's-meat, Starry, *Callitriche*  
 Duck's-foot, *Podophyllum*  
 Dulse, *Fucus palm*  
 Dwale, *Atropa*

## E.

Ebony, Cretan, *Ebenus*  
 Ebony, False, *Poinciana*  
 Ebony of the Alps, *Cytisus*  
 Ebony, Mountain, *Bauhinia*  
 Edders, *Arum*  
 Egg Plant, *Solanum*  
 Eglantine, *Rosa*  
 Elder Tree, *Sambucus*  
 Elder, Marsh, *Viburnum*  
 Elecampane, *Inula*  
 Elecampane, Bastard, *Helenia*  
 Elemi Tree, Gum, *Pistacia*  
 Elephant's Foot, *Elephantopus*  
 Elephant's Head, *Rhinanthus*  
 Elichrysium, Bastard Ethiopian  
     Stoebe  
 Eller, *Betula aln*  
 Elm, *Ulmus*  
 Enchanter's Nightshade, *Circæa*  
 Endive, *Cichorium*  
 Eryngo, *Eryngium*  
 Eschalot, *Allium*  
 Eternal Flower, *Xeranthemum*  
 Eternal Flower, *Gnaphalium*  
 Eternal Flower, *Gomphrena*  
 Evergreen, *Aizoon*  
 Evergreen, *Sempervivum*  
 Everlasting, *Xeranthemum*  
 Everlasting, *Gomphrena*  
 Everlasting, *Gnaphalium*  
 Euonymus, Climbing, *Celastrus*  
 Euonymus, Bastard, *Kiggellaria*  
 Euonymus, Bastard, *Celastrus*  
 Eye-bright, *Euphrasia*

## F.

- Fairy Mushroom, *Agaricus cor.*  
 Farting Tree, *Hura*  
 Faufel Nut, *Areca*  
 Felwort, *Gentiana*  
 Felon-wort, *Solanum*  
 Fennel, *Anethum*  
 Fennel, Hog's, *Peucedanum*  
 Fennel, Scorching, *Thapsia*  
 Fennel, Sea, *Critibnum*  
 Fennel Flower, *Nigella*  
 Fennel Flower of Crete, *Garidella*  
 Fennel Giant, *Ferula*  
 Fenugreek, *Trigonella*  
 Fern, Common Male, *Polypodium*  
 Fern, Common Female, *Polypodium*  
 Fern, Flowering, *Osmunda*  
 Fern, common or true Mules, *Asplenium*  
 Fern, Mules, *Hemionitis*  
 Fern, Sweet, *Scandix*  
 Feverfew, *Matricaria*  
 Feverfew, Bastard, *Parthenium*  
 Fever-root, *Triosteum*  
 Fever-weed, *Eryngium*  
 Fiddle-wood, *Citharexylum*  
 Field Basil, *Clenopodium*  
 Field Basil, American, *Monarda*  
 Field, Basil, Syrian, *Ziziphora*  
 Fig, *Ficus*  
 Fig, Indian, *Cactus*  
 Fig, Infernal, *Argemone*  
 Fig, Pharaoh's, *Ficus*  
 Fig, Pharaoh's, *Musa*  
 Fig, Marigold, *Mesembryanthemum*  
 Fig Tree, Cochineal, *Cactus*  
 Fig-wort, *Scrophularia*  
 Filberd, *Corylus*  
 Fingrigo, *Pisonia*  
 Finochia, *Anethum*  
 Fir, *Pinus*  
 Fir Moss, Upright, *Lycopodium*  
 Fish Thistle, *Carduus*  
 Flag, or Flag-flower, *Iris*  
 Flag, Corn, *Gladiolus*  
 Flag, Sweet-scented, *Acorus*  
 Flax, *Linum*  
 Flax, Carolina, *Polypremum*  
 Flax, Toad, *Antirrhinum*  
 Fleabane, *Conyza*  
 Fleabane, Marsh, *Inula*  
 Fleabane, Middle, *Inula*  
 Fleabane, Shrubby African, *Tarchonanthus*  
 Fleabane Tree, *Tarchonanthus*  
 Flea wort, *Plantago*  
 Flix-weed, *Sisymbrium*  
 Flower of Bristol, *Lychnis*  
 Flower of Constantinople, *Lychnis*  
 Flower Gentle, *Amaranthus*  
 Flower of an Hour, *Hibiscus*  
 Flower de Luce, *Iris*  
 Flower-fence of Barbadoes, *Poinciana*  
 Flower-fence, Bastard, *Adenanthera*  
 Fluellin, *Antirrhinum*  
 Fly Honeyfuckle, *Lonicera*  
 Fly Honeyfuckle, African, *Halimolobos*  
 Fly Bane, *Silene*  
 Fly-wort, *Silene*  
 Fool's Parsley, *Aethusa*  
 Fool's Stones, *Orchis*  
 Four o'clock Flower, *Mirabilis*  
 Fox Glove, *Digitalis*  
 Fox Tail Grass, *Alopecurus*  
 Frankincense, Jews, *Styrax*  
 Frankincense Tree, *Pinus*  
 Fraxinella, *Dieltamnus*  
 French bean, *Phaseolus*  
 French Honeyfuckle, *Hedysarum*  
 Fresh Water Soldier, *Stratiotes*  
 Fryer's Cowl, *Arum*  
 Fringe Tree, *Chionanthus*  
 Fritillary, *Fritillaria*  
 Fritillary Coxcomb, *Stapelia*  
 Frog's Bit, *Hydrocharis*  
 Fur'sell

Fuller's Thistle, *Dipsacus*  
 Fumatory, *Fumaria*  
 Furze, *Ulex*  
 Fustic Tree, *Morus*

## G.

Gale, or Sweet Gale, *Myrica*  
 Galingale, *Cyperus*  
 Garavances, *Cicer*  
 Garlick, *Allium*  
 Garlick Pear, *Crateva*  
 Gatter Tree, *Cornus*  
 Gelder Rose, *Viburnum*  
 Gelder Rose, Curran-leav'd, *Spiræa*  
 Gelder Rose, Virginian, *Spiræa*  
 Gentian, *Gentiana*  
 Gentian, Bastard, *Sarothra*  
 Gentianella, *Gentiana*  
 Gentle, Flower, *Amaranthus*  
 Gerard, Herb, *Ægopodium*  
 Germander, *Teucrium*  
 Germander, Rock, *Veronica*  
 Germander, Water, *Teucrium*  
 Gilead, False Baulm of, *Dracocephalum*  
 Gill, *Glechoma*  
 Gilly-flower, see July-flower  
 Ginger, *Amonum*  
 Ginseng, *Panax*  
 Gladiole, Water, *Butomus*  
 Gladiole, Water, *Lobelia*  
 Gladwin, Stinking, *Iris*  
 Glass-wort, *Salsola*  
 Glass-wort, Berry-bearing, *Anahafis*  
 Glass-wort, Jointed, *Salicornia*  
 Globe Amaranth, *Gomphrena*  
 Globe Daisy, *Globularia*  
 Globe Flower, *Sphæranthus*  
 Globe Ranunculus, *Trollius*  
 Globe Thistle, *Echinops*  
 Goat's Beard, *Tragopogon*

Goat's Rue, *Galega*  
 Goat's Stones, greater, *Satyrium*  
 Goat's Stones, lesser, *Orchis*  
 Goat's Thorn, *Astragalus*  
 Gold of Pleasure, *Myagrum*  
 Golden Cups, *Ranunculus*  
 Golden Lung-wort, *Hieracium*  
 Golden Maidenhair, *Polytrichum*  
 Golden Mouse-ear, *Hieracium*  
 Golden Rod, *Solidago*  
 Golden Rod Tree, *Bosea*  
 Golden Samphire, *Inula*  
 Golden Saxifrage, *Chrysosplenium*  
 Golden Thistle, *Scolymus*  
 Goldy Locks, *Chrysocoma*  
 Goldy Locks, *Gnaphalium*  
 Good Henry, *Chenopodium*  
 Gooseberry, *Ribes*  
 Gooseberry, American, *Melastoma*  
 Gooseberry of the Americans, *Cactus*  
 Gooseberry of Barbadoes, *Cactus*  
 Goose-foot, *Chenopodium*  
 Goose Grass, *Galium*  
 Goose Grass, great, *Asperugo*  
 Goose Tongue, *Achillea*  
 Go to bed at Noon, *Tragopogon*  
 Gorfs, *Ulex*  
 Gourd, *Cucurbita*  
 Gourd, Bitter, *Cucumis*  
 Gourd, Ethiopian, Sour, *Adansonia*  
 Gourd Tree, Indian, *Crescentia*  
 Gout-wort, *Ægopodium*  
 Gowan, *Bellis*  
 Grace, Herb of, *Ruta*  
 Grain, Oily Purging, *Sesamum*  
 Grain, Scarlet, *Quercus*  
 Grain, Scarlet, *Cactus*  
 Grape, *Vitis*  
 Grape, Mangrove, *Polygonum*  
 Grape, Sea-side, *Polygonum*  
 Grape Hyacinth, *Hyacinthus*  
 Grass

Grafs of Parnassus, *Parnassia*  
 Grafs Vetch, Crimson, *Lathyrus*  
 Grafs Wrack, *Zostera*  
 Gravel-bind, *Convolutus*  
 Greek Valerian, *Polemonium*  
 Green-weed, *Genista*  
 Grim the Collier, *Hieracium*  
 Gromwell, or Gromil, *Litho-  
spermum*  
 Gromwell, German, *Stellera*  
 Ground Ivy, *Glechoma*  
 Ground Nut, *Arachis*  
 Ground Pine, *Teucrium*  
 Ground Pine, Stinking, *Cam-  
phorosma*  
 Groundfel, *Senecio*  
 Groundfel Tree, *Baccharis*  
 Groundfel Tree with a Ficoides  
 Leaf, *Cacalia*  
 Guava, see Guayava  
 Guava, French, *Cassia*  
 Guayava, *Psidium*  
 Guills, *Chrysanthemum seg.*  
 Gum Elemi Tree, *Pistachia*  
 Gum Succory, *Chondrilla*  
 Gum Tragacanth, *Astragalus*  
 Gum, Sweet, *Liquidambar*

## H.

Hag-berries, *Prunus pad*  
 Hag-taper, *Verbascum thap.*  
 Hairbells, *Hyacinthus*  
 Hare's-ear, *Bupleurum*  
 Hare's-ear, Bastard, *Phyllis*  
 Hare's Lettuce, *Sonchus*  
 Hart's-horn Plantain, *Plantago*  
 Hart's-tongue, *Asplenium*  
 Hart-wort, *Seseli*  
 Hart-wort of Crete, *Tordylium*  
 Hartwort, Shrubby, of Ethiopia,  
*Bupleurum*  
 Hart-wort of Marseilles, *Seseli*  
 Hatchet Vetch, True, *Coronilla*

Hatchet Vetch, Clusius's Foreign,  
*Biserrula*  
 Hawk-weed, *Hieracium*  
 Hawk-weed, Bastard, *Crepis*  
 Hawk-weed, Trailing crooked-  
 seeded, *Hyoseris*  
 Hawk-weed, Woolly, *Andryala*  
 Hawthorn, or Haw, *Cratægus*  
 Hawthorn, Black American, *Vi-  
burnum*  
 Hay, Burgundian, *Medicago*  
 Hazel, or Hazel Nut, *Corylus*  
 Hazel, Witch, *Hamamelis*  
 Hazel, Witch, *Ulmus*  
 Heart Pea, *Cardiospermum*  
 Heart Seed, *Cardiospermum*  
 Heart's Ease, *Viola*  
 Heath, *Erica*  
 Heath, berry-bearing, *Empetrum*  
 Heath, black-berried, *Empetrum*  
 Heath, Mountain, *Saxifraga*  
 Heath, Low Pine, *Coris*  
 Heath Pease, *Orobis*  
 Hedge Hog, *Medicago*  
 Hedge Hog Thistle, *Cactus*  
 Hedge Hog Thorn, Spanish,  
*Anthyllis*  
 Hedge Hyssop, *Gratiola*  
 Hedge Mustard, *Erysimum*  
 Hedge Nettle, *Galeopsis*  
 Hedge Nettle, Shrubby, *Prasium*  
 Hellebore, *Helleborus*  
 Hellebore, Bastard, *Serapias*  
 Hellebore, black, *Helleborus*  
 Hellebore, Fennel-leaved black,  
*Adonis*  
 Hellebore, White, *Veratrum*  
 Helleborine, *Serapias*  
 Helmet-flower, *Aconitum*  
 Hemlock, *Conium*  
 Hemlock, great broad-leaved  
 Bastard *Ligusticum*  
 Hemlock, lesser, *Ethusa*  
 Hemlock, Water, *Cicuta*

Hem-

Hemlock Drop-wort, *Oenanthe*  
 Hemp, *Cannabis*  
 Hemp, Bastard, *Datisca*  
 Hemp, Bastard, *Galeopsis*  
 Hemp Agrimony, *Eupatorium*  
 Hemp Agrimony, Bastard, *Ageratum*  
 Hemp Agrimony, Naked-headed, *Verbena*  
 Hemp Agrimony, Water, *Bidens*  
 Henbane, *Hyoscyamus*  
 Henbane, Yellow, *Nicotiana*  
 Henweed, Guinea, *Petiveria*  
 Hepatica, *Anemone*  
 Hep Tree, *Rosa*  
 Herb Bane, *Orobancha*  
 Herb Bane, Great Purple, *Lathraea*  
 Herb Bennet, *Geum*  
 Herb Christopher, *Aetha*  
 Herb Gerard, *Aegopodium*  
 Herb of Grace, *Ruta*  
 Herb Mastick, *Satureia*  
 Herb Paris, *Paris*  
 Herb Paris of Canada, *Trillium*  
 Herb Robert, *Geranium*  
 Herb Trinity, *Viola*  
 Herb Truelove, *Paris*  
 Herb Truelove of Canada, *Trillium*  
 Herb Two-pence, *Lyfimachid*  
 Herb, Bessed, *Geum*  
 Herb, St. Bartholomew's *Ilex*  
 Herb, Willow, *Epilobium*  
 Herb, Willow, *Lythrum*  
 Herb, Willow, *Lifymachia*  
 Hercules's Allheal, *Pastinaca*  
 Hercules's Allheal, *Heracleum*  
 Hercules's Club, *Xanthoxylon*  
 Hicory Nut, *Juglans*  
 High Taper, *Verbascum*  
 Hind-berry, *Rubus*  
 Hog Plumb-tree, *Spondias*  
 Hog's Fennel, *Peucedanum*

Hogweed of the Americans, *Boerhavia*  
 Hollow-root, *Adoxa*  
 Holly, *Ilex*  
 Holly, Knee, *Ruscus*  
 Holly, Sea, *Eryngium*  
 Hollyhock, *Alcea*  
 Holy Thistle, *Cnicus*  
 Honesty, *Lunaria*  
 Hone-wort, *Sison*  
 Honey-flower, *Meliantbus*  
 Honey Locust, *Gleditsia*  
 Honeysuckle, *Lonicera*  
 Honeysuckle, African Fly, *Hal-leria*  
 Honeysuckle, American Upright, *Azalea*  
 Honeysuckle, French, *Hedysarum*  
 Honeysuckle Grass, *Trifolium*  
 Honey-wort, *Cerinthe*  
 Hop, *Humulus*  
 Hop-tree, *Ilex*  
 Horehound, *Marrubium*  
 Horehound, Base, *Stachys*  
 Horehound, Bastard, *Sideritis*  
 Horehound, Black, *Ballota*  
 Horehound, Stinking Marsh Bastard, *Glechoma*  
 Horehound, Water, *Lycopus*  
 Hornbeam, *Carpinus*  
 Horns, *Medicago*  
 Horse Chestnut, *Aesculus*  
 Horse Purslane, *Trianthema*  
 Horse Radish, *Cochlearia*  
 Horse-shoe Vetch, *Hippocrepis*  
 Horse-tail, *Equisetum*  
 Horse-tail, Shrubby, *Ephedra*  
 Horse-tongue, *Ruscus*  
 Hottentot Cherry, *Cassine*  
 Hound's-tongue, *Cynoglossum*  
 Houseleek, *Sempervivum*  
 Houseleek, lesser, *Sedum*  
 Houseleek, Small annual, *Tillæa*

House-

Houfeleek, Water, of Egypt,  
*Pistia*  
 Hyacinth, *Hyacinthus*  
 Hyacinth, African Blue, umbel-  
 lated, *Crinum*  
 Hyacinth, Lily, *Scilla*  
 Hyacinth, Peruvian, *Scilla*  
 Hyacinth, Starry, *Scilla*  
 Hyssop, *Hyssopus*  
 Hyssop, Hedge, *Gratiola*  
 Hyssop, Mountain, *Thymbra*

I.

Jacinth, *Hyacinthus*  
 Jack in a Box, *Hernandia*  
 Jack by the Hedge, *Erysimum*  
 Jacob's Ladder, *Polemonium*  
 Jacobæa Lily, *Amaryllis*  
 Jalap, *Mirabilis*  
 Jaimine, *Jasminum*  
 Jasmine, Arabian, *Nyctanthes*  
 Jasmine, Bastard, *Cestrum*  
 Jasmine, Bastard, *Lycium*  
 Jasmine, Ilex-leaved, *Lantana*  
 Jasmine, Fennel-leaved, *Ipomoea*  
 Jasmine, Persian, *Syringa*  
 Jasmine, Red, *Plumeria*  
 Jasmine, Scarlet, *Bignonia*  
 Jasmine, Yellow, *Bignonia*  
 Jericho, Rose of, *Anastatica*  
 Jersey, Thea, New, *Ceanothus*  
 Jerusalem Artichoke, *Helianthus*  
 Jerusalem Cowslip, *Pulmonaria*  
 Jerusalem Cross, *Lychnis*  
 Jerusalem Oak, *Chenopodium*  
 Jerusalem Sage, *Phlomis*  
 Jerusalem, Sage of, *Pulmonaria*  
 Jessamine, see Jasmine  
 Jesuits Bark -tree, True *Cinchona*  
 Jesuits Bark-tree, False, *Iva*  
 Jew's Frankincense, *Styrax*  
 Jew's Mallow, *Carchorus*  
 Liathra Bark, *Clusia*

Immortal Eagle flower, *Impatiens*  
 Immortal flower, *Gomphrena*  
 Indian God Tree, *Ficus*  
 Indian Shot, *Canna*  
 Indigo, *Indigofera*  
 Indigo, Bastard, *Amorpha*  
 Infernal Fig, *Argemone*  
 Job's Tears, *Coix*  
 Johnfonia, *Callicarpa*  
 Johnquill, *Narcissus*  
 Ipecacuana, Bastard, *Asclepias*  
 Ipecacuana, False, *Triosteum*  
 Iris, Uvaria, *Aletris*  
 Iron-wood, *Sideroxylum*  
 Iron-wort, *Sideritis*  
 Judas-tree, *Circis*  
 Jujube-tree, *Rhamnus*  
 July-flower, Clove, *Dianthus*  
 July-flower, Queen's, *Hesperis*  
 July-flower, Stock, *Cheiranthus*  
 Juniper, *Juniperus*  
 Jupiter's Beard, *Antbyllis*  
 Jupiter's Beard, American, *A-  
 morpha*  
 Jupiter's Distaff, *Salvia*  
 Ivy, *Hedera*  
 Ivy, Bindweed-leaved, *Meni-  
 spermum*  
 Ivy, Ground, *Glechoma*  
 Ivy-tree of America, *Kalmia*

K.

Kale, Sea, *Crambe*  
 Kali, *Salsola*  
 Kali, Egyptian, *Mesembryanthe-  
 mum*  
 Kali, Sal, *Salicornia*  
 Kandel of the Indians, *Rhizo-  
 phora*  
 Kelp, *Salicornia*  
 Kermes, *Quercus*  
 Kidney Bean, *Phaseolus*

Kidney

Kidney Bean-tree of Carolina,

*Glycine*Kidney Vetch, *Anthyllis*Kidney-Wort, *Saxifraga*King's Spear, *Asphodelus*Knapweed, *Centaurea*Knapweed, Thorny, *Centaurea*Knawel, *Scleranthus*Knee Holly, *Ruscus*Knee Holm, *Ruscus*Knight's Cross, *Lychnis*Knot Berries, *Rubus*Knot Grass, *Polygonum*Knot Grass, German, *Scleranthus*Knot Grass, Mountain, *Illecebrum*Knot Grass, Verticillate, *Illecebrum*

## L.

Laburnum, *Cytisus*Ladder to Heaven, *Convallaria*Ladder, Jacob's, *Polemonium*Lady's Bedstraw, *Galium*Lady's Bower, *Clematis*Lady's Comb, *Scandix*Lady's Cushion *Saxifraga*Lady's Finger, *Anthyllis*Lady's Mantle, *Alchemilla*Lady's Seal, *Tamus*Lady's Slipper, *Cypripedium*Lady's Smock, *Cardamine*Lady's Traces, Triple, *Ophrys*Lakeweed, *Polygonum*Lamb's Lettuce, *Valeriana*Larch-tree, *Pinus*Lark's Heel, *Delphinium*Lark's Spur, *Delphinium*Laserwort, *Laserpitium*Lavender, *Lavandula*Lavender, Sea, *Statice*Lavender Cotton, *Santolina*Laver, *Ulva*Laurel, *Prunus*Laurel, Alexandrian, *Ruscus*

Laurel, Dwarf, of America,

*Kalmia*Laurel, Flax-leaved, *Daphne*Laurel, Sea-side, *Phyllanthus*Laurel, Spurge, *Daphne*Laurustinus, *Viburnum*Lauskraut, *Delphinium*Lead-wort, *Plumbago*Leather-wood, *Dirca*Leek, *Allium*Lemon, *Citrus*Lemon, Water, *Passiflora*Lentils, *Ervum*Lentisk, *Pistacia*Lentisk, African, *Schinus*Lentisk, Peruvian, *Schinus*Leopard's Bane, *Doronicum*Lettuce, *Lactuca*Lettuce, Hare's, *Sonchus*Lettuce, Lamb's, *Valeriana*Lettuce, Wild, *Prenanthes*Life, Tree of, *Thuya*Life, Wood of, *Guaiacum*Life Everlasting, *Gnaphalium*Lignum Aloes, *Cordia*Lignum Vitæ, *Guaiacum*Lilac, *Syringa*Lily, *Lilium*Lily, African Scarlet, *Amaryllis*Lily, Asphodel, *Grinum*Lily, Atamasco, *Amaryllis*Lily, Belladonna, *Amaryllis*Lily, St. Bruno's, *Hemerocallis*Lily, Conval, *Convallaria*Lily, Day, *Hemerocallis*Lily, Guernsey, *Amaryllis*Lily, Jacobæa, *Amaryllis*Lily, Japan, *Amaryllis*Lily, May, *Convallaria*Lily, Mexican, *Amaryllis*Lily, Persian, *Fritillaria*Lily, Superb, *Gloriosa*Lily, Water, *Nymphaea*

Lily,

Lily, Leffer, Yellow Water, with  
 fringed Flowers, *Menyanthes*  
 Lily, Zeylon, *Amaryllis*  
 Lily, Asphodel, *Hemerocallis*  
 Lily, Daffodil, *Amaryllis*  
 Lily, Daffodil, *Pancratium*  
 Lily, Hyacinth, *Scilla*  
 Lily, Thorn, *Catesbæa*  
 Lily of the Valley, *Convallaria*  
 Lime, *Citrus*  
 Lime, Brook, *Veronica*  
 Lime-tree, *Tilia*  
 Ling, *Erica*  
 Linden-tree, *Tilia*  
 Lion's-foot, Candy, *Catananche*  
 Lion's-leaf, *Leontice*  
 Lion's-tail, *Leonurus*  
 Lipple-hout, *Cassine*  
 Liquorice, *Glycyrrhiza*  
 Liquorice, Wild, *Astragalus*  
 Liquorice, Wild, *Capraria*  
 Liquorice, Wild, *Glycine*  
 Liquorice Vetch, *Astragalus*  
 Liquorice Vetch, Knobbed-root-  
 ed, *Glycine*  
 Live-ever, *Sedum*  
 Live-long, *Sedum*  
 Liver-wort, *Lichen*  
 Liver-wort, Marsh, *Riccia*  
 Liver-wort, Noble, *Anemone*  
 Lizard-tail, *Saururus*  
 Lizard-tail, *Piper*  
 Loblolly Bay, *Gordonia*  
 Locker Gowlans, *Trollius*  
 Locust, *Melanthus*  
 Locust, *Ceratonia*  
 Locust, Bastard, *Hymenæa*  
 Locust-tree, *Hymenæa*  
 Locust-tree, *Robinia*  
 Locust-tree, Honey, *Gleditsia*  
 Logwood, *Hæmatoxylon*  
 London Pride, *Saxifraga*  
 Loose-strife, *Lyfimachia*  
 Loose-strife, podded, *Epilobium*

Loose-strife, Purple, *Lythrum*  
 Loose-strife, spiked, *Lythrum*  
 Loose-strife, Yellow Virginian,  
*Gaura*  
 Lords and Ladies, *Arum*  
 Lotus, or Lote-tree, *Celtis*  
 Lotus, supposed, of Homer, *Dio-  
 spyros*  
 Lotus, Honey, *Trifolium*  
 Lovage, *Ligusticum*  
 Love, Tree of, *Cercis*  
 Love Apple, *Solanum*  
 Love in a Mist, *Passiflora*  
 Love lies a bleeding, *Amaranthus*  
 Louse-wort, *Pedicularis*  
 Louse-wort, Yellow, *Rhinanthus*  
 Lucern Grass, *Medicago*  
 Lucken-Gowan, *Trollius*  
 Lung-wort, *Pulmonaria*  
 Lung-wort, Cow's *Verbascum*  
 Lung-wort, Golden, *Hieracium*  
 Lupine, *Lupinus*  
 Lust-wort, *Drosera*  
 Lychnidea, *Phlox*  
 Lychnis' Bastard, *Phlox*  
 Lychnis, Wild, *Agrostema*

## M.

Mace, Reed, *Typha*  
 Mad Apple, *Solanum*  
 Maddar, *Rubia*  
 Maddar, Little Field, *Sherardia*  
 Maddar, Petty, *Crucianella*  
 Mad-wort, *Alyssum*  
 Mad-wort, German, *Asperugo*  
 Mahaleb, *Prunus*  
 Maho-tree, *Hibiscus*  
 Maiden-hair, *Adiantum*  
 Maiden-hair, English black, *As-  
 plenium*  
 Maiden-hair, Golden, *Polytrichum*  
 Maiden-hair, White, *Asplenium*  
 Maiden Plumb, *Chrysobalanus*  
 Mala-

- Malabar Nut, *Justicia*  
 Male Balsam Apple, *Momordica*  
 Mallow, *Malva*  
 Mallow, Bastard, *Malope*  
 Mallow, Jew's, *Corchorus*  
 Mallow, Indian, *Sida*  
 Mallow, Indian, *Urena*  
 Mallow, Marsh, *Althæa*  
 Mallow, Rose, *Alcea*  
 Mallow, Syrian, *Hibiscus*  
 Mallow, Tree, *Lavatera*  
 Mallow, Varied leaved, *Lavatera*  
 Mallow, Venetian, *Lavatera*  
 Mallow, Vervain, *Malva*  
 Mallow, Yellow, *Sida*  
 Mammee, *Mammea*  
 Mammee, Sapota, *Achras*  
 Manchineel-tree, *Hippomane*  
 Mandrake, *Mandragora*  
 Mango-tree, *Mangifera*  
 Mangostan, or Mangosteent, *Garciana*  
 Mangrove Grape, *Polygonum*  
 Mangrove-tree of America, *Rhizophora*  
 Manihot, *Jatropha*  
 Maple, *Acer*  
 Maracock, *Passiflora*  
 Marigold, *Calendula*  
 Marigold, African, *Tagetes*  
 Marigold, Corn, *Chrysanthemum*  
 Marigold, Fig, *Mesembryanthemum*  
 Marigold, French, *Tagetes*  
 Marigold, Marsh, *Caltha*  
 Marjorum, common or sweet, *Origanum*  
 Marjoram, Bastard, *Origanum*  
 Marjoram, Pot, *Origanum*  
 Marjoram, Spanish, *Urtica*  
 Marjoram, Wild, *Origanum*  
 Marjoram, Winter sweet, *Origanum*  
 Marsh-mallow, see Mallow  
 Martagon, *Lilium*  
 Marvel of Peru, *Mirabilis*  
 Marum, Common, *Satureia*  
 Marum, Pennyroyal-scented, *Melissa*  
 Marum, Syrian, or Cretan, *Origanum*  
 Master-wort, *Imperatoria*  
 Master-wort, Black, *Astrantia*  
 Mastich, Herb, *Satureia*  
 Mastich, Indian, *Schinus*  
 Mastich, Peruvian, *Schinus*  
 Mastich-tree, *Pistachia*  
 Mastich-tree, Indian, *Schinus*  
 Mastich Thyme, *Satureia*  
 Mastich Thyme, *Thymus*  
 Matfellow, *Cantaurea*  
 Mat-weed, Hooded, *Lygeum*  
 Maudlin, *Achillea*  
 May Apple, *Podophyllum*  
 May Bush, *Cratægus*  
 May Lily, *Convallaria*  
 May Weed, *Anthemis*  
 Mays, *Zea*  
 Meadia, *Dodecatheon*  
 Meadow Rue, *Thalictrum*  
 Meadow Saffron, *Colchicum*  
 Meadow Saxifrage, *Peucedanum*  
 Meadow-sweet, *Spiræa*  
 Meadow-sweet, Greater, *Spiræa*  
 Meadow, Queen of the, *Spiræa*  
 Mealy-tree, Pliant, *Viburnum*  
 Medic, *Medicago*  
 Medic, Bastard, *Medicago*  
 Medic, Sea, *Medicago*  
 Medic, Vetch, *Hedysarum*  
 Medic, Vetchling, *Hedysarum*  
 Medlar, *Mespilus*  
 Medusa's Head, *Euphorbia*  
 Melancholy Thistle, *Carduus*  
 Melancholy-tree, *Nyctanthus*  
 Melilot, *Trifolium*  
 Melilot Trefoil, *Trifolium*  
 Melon, *Cucumis*  
 Melon, Water, *Cucurbita*  
 Melon-

Melon-thistle, *Caëtus*  
 Mercury, *Mercurialis*  
 Mercury, English, *Chenopodium*  
 Mezereon, *Daphne*  
 Meum, *Athamanta*  
 Mignonette, *Reseda*  
 Milfoil, *Achillea*  
 Milfoil, Water, *Hottonia*  
 Milfoil, Water, *Myriophyllum*  
 Milfoil, Water, *Utricularia*  
 Milk Vetch, *Astragalus*  
 Milk Vetch, Bastard, *Phaca*  
 Milk Wood, *Bignonia*  
 Milk-wort, *Polygala*  
 Milk-wort, *Euphorbia*  
 Milk-wort, Sea, *Glaux*  
 Millet, *Panicum*  
 Millet-Grass, *Milium*  
 Millet, Indian, *Holcus*  
 Milt-waste, *Asplenium*  
 Mint, *Mentha*  
 Mint, Cat, *Nepeta*  
 Mistletoe, *Viscum*  
 Mithridate Mustard, *Thlaspi*  
 Mithridate Mustard, Bastard,  
*Iberis*  
 Mock Orange, *Philadelphus*  
 Mock Privet, *Phillyrea*  
 Moldavian Baulm, *Dracocephalum*  
 Molucca Baulm, *Moluccella*  
 Moly with Lily-flowers, or Homer's, *Allium*  
 Money-wort, *Lyfimachia*  
 Monk's-head, *Leontodon*  
 Monks'-hood, *Aconitum*  
 Monk's Rhubarb, *Rumex*  
 Monster, *Fritillaria*  
 Moon Seed, *Menispermum*  
 Moon Trefoil, *Medicago*  
 Moon-wort, *Lunaria*  
 Moor Berries, *Vaccinium*  
 Moschate, Tuberoſe, *Adoxa*  
 Moss-tree, *Lichen*

Moss, Upright Fir, *Locopodium*  
 Moss, Water, *Fontinalis*  
 Moss-berries, *Vaccinium*  
 Moth Mullein, *Verbascum*  
 Mother of Thyme, *Thymus*  
 Mother-wort, *Leonurus*  
 Mouse-ear, *Hieracium*  
 Mouse-ear, Creeping, *Hieracium*  
 Mouse-ear Golden, *Hieracium*  
 Mouse-ear Chikweed, *Cerastium*  
 Mouse-ear Scorpion-grass, *Myosotis*  
 Mouse-tail, *Myosurus*  
 Mugweed, *Valantia cru.*  
 Mug-wort, *Artemisia*  
 Mulberry-tree, *Morus*  
 Mulberry Blite, *Blitum*  
 Mule Fairchild's, *Dianthus*  
 Mule-wort, *Hemionitis*  
 Mule's Fern, *Hemionitis*  
 Mullein, *Verbascum*  
 Mullein, Moth, *Verbascum*  
 Mushrooms, *Agaricus*  
 Mushrooms, Cup, *Peziza*  
 Musk Seed, *Hibiscus*  
 Mustard, *Sinapis*  
 Mustard, Bastard, *Cleome*  
 Mustard, Buckler, *Biscutella*  
 Mustard, Hedge, *Erysimum*  
 Mustard, Mithridate, *Thlaspi*  
 Mustard, Bastard Mithridate,  
*Iberis*  
 Mustard, Tower, *Turritis*  
 Mustard, Bastard Tower, *Arabis*  
 Mustard, Treacle, *Clypeola*  
 Mustard, Treacle, *Thlaspi*  
 Myrtle, *Myrtus*  
 Myrtle, Candleberry *Myrica*  
 Myrtle, Dutch, *Myrica*

N.

Naked Ladies, *Colchicum*  
 Naples, Star of, *Ornithogalum*  
 Narcissus

Narcissus, Third, of Matthioli, *Pancratium*  
 Naseberry-tree, *Sloanea*  
 Nasturtion, *Tropæolum*  
 Navel-wort, *Cotyledon*  
 Navel-wort, Bastard, *Crassula*  
 Navel-wort, False, *Crassula*  
 Navel-wort, Venus's, *Cynoglossum*  
 Navel-wort, Water, *Hydrocotyle*  
 Navew, *Brassica*  
 Nectarine, *Amygdalus*  
 Nep, *Nepeta*  
 Nettle, *Urtica*  
 Nettle, Dead, *Lamium*  
 Nettle, Hedge, *Galeopsis*  
 Nettle Shrubby Hedge, *Prasium*  
 Nettle-tree, *Celtis*  
 Net-work, *Eriocaulon dec.*  
 Nickar-tree, *Guilandina*  
 Nightshade, *Solanum*  
 Nightshade, American, *Phytolacca*  
 Nightshade, American, *Rivina*  
 Nightshade, Bastard, *Rivina*  
 Nightshade, Deadly, *Atropa*  
 Nightshade, Enchanter's, *Circæa*  
 Nightshade, Malabar, *Basella*  
 Nightshade, Three-leaved, *Trilium*  
 Nipple-wort, *Lapsana*  
 Noli me tangere, *Impatiens*  
 Noli me tangere, *Momordica*  
 None so pretty, *Saxifraga*  
 Nonfuch, *Lychnis*  
 Nose-bleed, *Achillea*  
 Nut-tree, *Corylus*  
 Nut, Bladder, *Staphylæa*  
 Nut, Cashew, *Anacardium*  
 Nut Chocolate, *Theobroma*  
 Nut, Cob, *Corylus*  
 Nut, Cocoa, *Cocis*  
 Nut, Earth, *Bunium*  
 Nut, Fausel, *Areca*  
 Nut, Ground, *Arachis*

Nut, Hazel, *Corylus*  
 Nut, Malabar, *Justicia*  
 Nut, Pease Earth, *Lathyrus*  
 Nut, Physic, *Jatropha*  
 Nut, Physic, *Croton*  
 Nut, Pig, *Bunium*  
 Nut, Pistacia, *Pistacia*  
 Nut, Purging, *Croton*  
 Nut, Purging, *Jatropha*  
 Nut, Spanish, *Iris*  
 Nut, Walnut, *Juglans*

## O.

Oak, *Quercus*  
 Oak, Dwarf, *Teucrium*  
 Oak of Cappadocia, *Ambrosia*  
 Oak of Jerusalem, *Chenopodium*  
 Oak, Poison, *Rhus*  
 Oats, *Avena*  
 Oats, Seaside, of Carolina, *Uniola*  
 Oats, Wild-bearded, *Bromus*  
 Oat-grass, *Bromus*  
 Oil Nut, *Ricinus*  
 Oil Seed, *Ricinus*  
 Oil-tree, *Ricinus*  
 Oily purging Grain, *Sesamum*  
 Okra, *Hibiscus*  
 Old Man's Beard, *Clematis*  
 Old Man's Head, *Dianthus*  
 Oleander, *Nerium*  
 Oleaster, *Elæagnus*  
 Olive, *Olea*  
 Olive, Spurge, *Daphne*  
 Olive, Wild, *Elæagnus*  
 Olive, Wild, of Barbadoes, *Bontia*  
 One Berry, *Paris*  
 One Blade, *Convallaria*  
 Onion, *Allium*  
 Onion, Sea, *Scilla*  
 Orange, *Citrus*  
 Orange, Mock, *Philadelphus*  
 Origan, *Origanum*

Oroonoka,

Oroonoka, *Nicotiana*  
 Orpine, *Sedum*  
 Orpine, Bastard, *Andrachne*  
 Orpine, Lesser, *Crassula*  
 Orpine, True of Imperatus,  
     *Telephium*  
 Orrach, *Atriplex*  
 Orrach, Berry-bearing, *Blitum*  
 Orrach, Creeping shrubby, *Atra-  
     phaxis*  
 Orrach, Wild, *Chenopodium*  
 Osier, *Salix*  
 Osmund Royal, *Osmunda*  
 Ox-eye, *Buphthalmum*  
 Ox-eye of old Authors, *Anthemis*  
 Ox-eye, Daisy, *Chrysanthemum*  
 Ox-lips, *Primula*  
 Ox-tongue, *Picris*  
 Oswego Tea, *Monarda*  
 Oyster-green, *Ulva, lac*

## P.

Paddock-stool, *Agaricus*  
 Paddock-pipe, *Equisetum*  
 Pæony, *Pæonia*  
 Pagils, or Paigles, *Primula*  
 Painted Ladies, *Dianthus*  
 Painted Lady Pease, *Lathyrus*  
 Palm, Common or Greater, or  
     Date-tree, *Phœnix*  
 Palm, Lesser or Dwarf, *Chamæ-  
     rops*  
 Palm, The Cocoa Nut, *Cocos*  
 Palm, The Faufel Nut, *Areca*  
 Palm, Malabar, called Ampana  
     and Carimpana, *Borassus*  
 Palm, Wild Malabar, called Ka-  
     tou Indel, *Elate*  
 Palm, Mountain, with largest  
     Leaves, called Codda Panna,  
     *Corypha*  
 Palm with ringed Stems, called  
     Todda Panna, *Cycas*

Palm with bipinnate Leaves, call-  
     ed Schunda Panna, *Caryota*  
 Palma Christi, *Ricinus*  
 Palmetto, *Chamærops*  
 Panic, *Panicum*  
 Panic-grass, *Panicum*  
 Pansies, *Viola*  
 Papaw-tree, *Carica*  
 Papaw-tree of North America,  
     *Annona*  
 Paraguay Tea, *Ilex*  
 Park-leaves, *Hypericum*  
 Parsley, *Apium*  
 Parsley, Bastard, *Caucalis*  
 Parsley, Corn, *Sison*  
 Parsley, Fool's, *Æthusa*  
 Parsley, Macedonian, *Bubon*  
 Parsley, Milky, *Selinum*  
 Parsley, Mountain, *Athamanta*  
 Parsley, Stone, *Bubon*  
 Parsley, Bastard Stone, *Sison*  
 Parsley, Wild, *Sison*  
 Parsley, Wild of America, *Car-  
     diospermum*  
 Parsley Break-stone, *Aphanes*  
 Parsley Piert, *Aphanes*  
 Parsnep, *Pastinaca*  
 Parsnep, Cow's, *Heracleum*  
 Parsnep, Prickly, *Echinophora*  
 Parsnep, Water, *Sium*  
 Parnassus, Grass of, *Parnassia*  
 Pasque-flower, *Anemone*  
 Passion-flower, *Passiflora*  
 Patience, *Rumex*  
 Paul's Betony, *Veronica*  
 Pea, *Pisum*  
 Pea, Chich, *Cicer*  
 Pea, Chichling, *Lathyrus*  
 Pea, Earth-nut, *Lathyrus*  
 Pea, Everlasting, *Lathyrus*  
 Pea, Heart, *Cardiospermum*  
 Pea, Heath, *Orebus*  
 Pea, Painted Lady, *Lathyrus*  
 Pea, Pigeon, *Cytisus*

Pea,

- Pea, Sweet-scented, *Lathyrus*  
 Pea, Tangier, *Lathyrus*  
 Pea, Winged, *Lotus*  
 Pea, Wood, *Orobus*  
 Peach, *Amygdalus*  
 Peach, Wolf's, *Solanum*  
 Pear, *Pyrus*  
 Pear, Avocado, Avocado or Alligator, *Laurus*  
 Pear, Batchelor's, *Solanum*  
 Pear, Garlick, *Crateva*  
 Pear, Prickly, *Cactus*  
 Pearl-wort, *Sagina*  
 Pellitory, *Parietaria*  
 Pellitory, Bastard, *Achillea*  
 Pellitory, Double, *Achillea*  
 Pellitory of Spain, *Anthemis*  
 Pellitory of Spain, False, *Chrysanthemum*  
 Pellitory-tree, *Zanthoxylum*  
 Pellitory of the Wall, *Parietaria*  
 Penny-royal, *Mentha*  
 Penny-royal, Virginian, *Satureia*  
 Penny-wort, Marsh, *Hydrocotyle*  
 Penny-wort, Wall, *Cotyledon*  
 Penny-wort, Water, *Hydrocotyle*  
 Penguin, *Bromelia*  
 Pentstemon, *Chelone*  
 Peony, see *Pæony*  
 Pepper, *Piper*  
 Pepper, Barbary, *Capsicum*  
 Pepper, Bell, *Capsicum*  
 Pepper, Bird, *Capsicum*  
 Pepper, Bonnet, *Capsicum*  
 Pepper, Guinea, *Capsicum*  
 Pepper, Jamaica, *Myrtus*  
 Pepper, Indian, *Capsicum*  
 Pepper, Long, *Piper*  
 Pepper, Poor Man's, *Lepidium*  
 Pepper, Wall, *Sedum*  
 Pepper Water, *Polygonum*  
 Pepper-grass, *Pilularia*  
 Pepper-pot, *Capsicum*  
 Pepper-tree, *Vitis*  
 Pepper-wort, *Lepidium*  
 Percepier, *Aphanes*  
 Periwinkle, *Vinca*  
 Perficaria, *Polygonum*  
 Pestilent-wort, *Tussilago*  
 Petroseline Wortle, *Apium*  
 Petty Madder, *Crucianella*  
 Petty Whin, *Ononis*  
 Pharoah's Fig, *Musa*  
 Pharoah's Fig, *Ficus*  
 Pheasant's Eye, *Adonis*  
 Phyllyrea, False, *Rhamnus*  
 Phu, *Valeriana*  
 Physic, Nut, *Jatropha*  
 Physic, Nut, *Croton*  
 Physic, Pork, *Phytolacca*  
 Pick-tooth, *Daucus*  
 Pigeon Pea, *Cytisus*  
 Pig Nut, *Bunium*  
 Pig Nut, *Juglans*  
 Pile-wort, *Ranunculus*  
 Pimento, *Myrtus*  
 Pimpernel, *Anagallis*  
 Pimpernel, Water, *Veronica*  
 Pimpernel, Round-leaved Water, *Samolus*  
 Pimpernel, Yellow of the Woods, *Lythymachia*  
 Pimpillo, *Cactus*  
 Pinaster, *Pinus*  
 Pine-tree, *Pinus*  
 Pine, Ground, *Teucrium*  
 Pine, Stinking Ground, *Camphorosma*  
 Pine, Heath low, *Coris*  
 Pine-apple, *Bromelia*  
 Pine-apple, Wild, *Renealmia*  
 Pink, *Dianthus*  
 Pink, Indian, *Ipomoea*  
 Pink, Indian, *Lonicera*  
 Pink, Sea, *Statice*  
 Pinpillow, see Pimpillo  
 Pipe-tree, *Syringa*  
 Pipe-tree, Pudding, *Cassia*  
 Pipe-

- Piperidge Bush, *Berberis*  
 Pippen, *Pyrus*  
 Piquets, *Dianthus*  
 Pishamin Plum, *Diospyros*  
 Pistacia-Nut, *Pistacia*  
 Pistacia-tree, Black Virginian,  
     *Hamamelis*  
 Pistacia, Hazel-leaved, *Hama-  
 melis*  
 Pitch-tree, *Pinus*  
 Plane-tree, *Platanus*  
 Plane-tree, False, *Acer*  
 Plant, Burning thorny, *Euphorbia*  
 Plant, Eg, *Solanum*  
 Plant, Humble, *Mimosa*  
 Plant, Sensitive, *Mimosa*  
 Plant, Bastard sensitive, *Æschy-  
 nomene*  
 Plantain, *Plantago*  
 Plantain, Water, *Alisma*  
 Plantain, Least Water, *Limosella*  
 Plantain, Star headed Water,  
     *Alisma*  
 Plantain Shot, *Canna*  
 Plantain-tree, *Musa*  
 Pliant Mealy-tree, *Viburnum*  
 Plowman's Spikenard, *Baccharis*  
 Plowman's Spikenard, *Gonyza*  
 Plum-tree, *Prunus*  
 Plum, American Black, *Chryso-  
 balanus*  
 Plum, Bay, *Psidium*  
 Plum, Brazilian, *Spondias*  
 Plum, Cocoa, *Chrysobalanus*  
 Plum, Hog, *Spondias*  
 Plum, Indian Date, *Diospyros*  
 Plum, Maiden, *Chrysobalanus*  
 Plum, Pishamin, Persimon, or  
     Pitchumon, *Diospyros*  
 Poccoon, see Puccoon  
 Pockwood, *Guaiacum*  
 Poet's Cassia, *Osyris*  
 Poet's Rosemary, *Osyris*  
 Poison Ash, *Rhus*  
 Poison Berry, *Cestrum*  
 Poison Bush, *Euphorbia*  
 Poison Oak, *Rhus*  
 Poison Tree, *Rhus*  
 Poke, Virginian, *Phytolacca*  
 Poley Mountain, *Teucrium*  
 Poley Grass, *Lytbrum*  
 Polypody, *Polypodium*  
 Pomegranate, *Punica*  
 Pompion, *Cucurbita*  
 Pond-weed, *Potamogeton*  
 Pond-weed, Triple-headed, *Zan-  
 nichellia*  
 Poplar, *Populus*  
 Poppy, *Papaver*  
 Poppy, Horned, *Chelidonium*  
 Poppy, Prickly, *Argemone*  
 Poppy, Spatling, *Cucubalus*  
 Pork Phyfic, *Phytolacca*  
 Potatoe, *Solanum*  
 Potatoe, Indian, *Dioscorea*  
 Potatoe, Spanish, *Convolvulus*  
 Prick Wood, *Euonymus*  
 Primrose, *Primula*  
 Primrose, Night, *Oenothera*  
 Primrose, Peerless, *Narcissus*  
 Primrose-tree, *Oenothera*  
 Princes Feather, *Amaranthus*  
 Privet, *Ligustrum*  
 Privet, Evergreen, *Rhamnus*  
 Privet, Mock, *Phillyrea*  
 Priyy-saugh, *Ligustrum*  
 Puccoon, *Sanguinaria*  
 Pudding-grass, *Mentha*  
 Pudding Pipe-tree, *Cassia*  
 Puff-balls, *Lycoperdon* *bov.*  
 Pumpion, see Pompion  
 Pumpkin, see Pompion  
 Purging Grain, Oily, *Sesamum*  
 Purging Nut, *Croton*  
 Purging Nut, *Jatropha*  
 Purging Thorn, *Rhamnus*  
 Purple Apple, *Annona*  
 Purslane, *Portulaca*  
 Purslane,

Purflane, Horse, *Trianthema*  
 Purflane, Sea, *Atriplex*  
 Purflane Water, *Peplis*  
 Purflane, Tree Sea, *Atriplex*

## Q.

Quamoclit, *Ipomœa*  
 Queen of the Meadows, *Spirœa*  
 Queen's July-flower, *Hesperis*  
 Queen's Violet, *Hesperis*  
 Quick, *Cratægus*  
 Quicken, *Sorbus*  
 Quickbean-tree, *Sorbus*  
 Quince-tree, *Pyrus*  
 Quill-wort, *Isoetes lac.*

## R.

Radish, *Raphanus*  
 Radish, Horse, *Cochlearia*  
 Radish, Water, *Sisymbrium*  
 Ragged Robin, *Lychnis*  
 Ragwort, Common, *Senecio*  
 Ragwort, African, *Othonna*  
 Ragworts, Sundry, of old Authors, *Senecio*  
 Ragworts, Sundry, of old Authors, *Solidago*  
 Rampions, Horned, *Phyteuma*  
 Rampions, Crested, *Lobelia*  
 Rampions, Common Esculent, *Campanula*  
 Rampions with scabious Heads, *Fasione*  
 Ramsons, *Allium*  
 Ranunculus, Globe, *Frollius*  
 Rape, *Brassica*  
 Rape, Broom, *Orobanchæ*  
 Rape, Cole, *Brassica*  
 Rape of Cistus, *Asarum*  
 Raspberry, *Rubus*  
 Rattle, *Pedicularis*  
 Rattle, Yellow, *Rhinanthus*

Rattlesnake Root, Senegal, *Polygala*  
 Rattlesnake Root, Dr. Witts, *Prenanthes*  
 Rattlesnake Weed, *Eryngium*  
 Redbud, *Cercis*  
 Red Whorts, Spanish, *Arbutus*  
 Reddish, see Radish  
 Reed, *Arundo*  
 Reed, Burr, *Sparganium*  
 Reed, Indian flowering, *Canna*  
 Reed, Mace, *Typha*  
 Rennet, Cheese, *Galium*  
 Rest Harrow, *Ononis*  
 Rhamnus, Bastard, *Hippophaë*  
 Rhendeer, *Lichen ran.*  
 Rhubarb, *Rheum*  
 Rhubarb, Monks, *Rumex*  
 Ribwort, *Plantago*  
 Rice, *Oryza*  
 Ricinus, Bastard, *Croton*  
 Roane-tree, *Sorbus*  
 Robert, Herb, *Geranium*  
 Rocambole, *Allium*  
 Rock Germander, *Veronica*  
 Rock Rose, *Cistus*  
 Rocket, *Brassica*  
 Rocket, Bastard, *Reseda*  
 Rocket, Corn, *Bunias*  
 Rocket, Marsh, *Sisymbrium*  
 Rocket, Sea, *Bunias*  
 Rocket, Square-codded, of Montpellier, *Bunias*  
 Rocket, Water, *Sisymbrium*  
 Rocket, Winter, *Sisymbrium*  
 Rocket, or Dame's, Violet, *Hesperis*  
 Rod, Aaron's, *Solidago*  
 Rod, Golden, *Solidago*  
 Rod-tree, Golden, *Bosca*  
 Rod, Shepherd's, *Dipsacus*  
 Roe-buck Berries, *Rubus sax.*  
 Root, Indian Arrow, *Maranta*  
 Root, China, *Smilax*

Root

Root, False China, *Senecio*  
 Root, Fever, *Triosteum*  
 Root, Hollow, *Adoxa*  
 Root, Rose, *Rhodiola*  
 Root, Snake, *Aristolochia*  
 Root, Snake, black or wild, of  
 America, *Aëtea*  
 Root, Dr. Witts's Rattlesnake,  
*Prenanthes*  
 Root, Senegaw Rattlesnake, *Po-  
 lygala*  
 Root, Sweet, *Glycyrrhiza*  
 Rose, *Rosa*  
 Rose, China, *Hibiscus*  
 Rose, Christmas, *Helleborus*  
 Rose, Corn, *Papaver*  
 Rose, Gelder, *Viburnum*  
 Rose, Gelderland, *Viburnum*  
 Rose, Virginian Gelder, *Spiræa*  
 Rose, Martinico, *Hibiscus*  
 Rose, Rock, *Cistus*  
 Rose of Jericho, *Anastatica*  
 Rose Bay, *Nerium*  
 Rose Bay Dwarf, *Rhododendrum*  
 Rose Bay, Mountain, *Rhododen-  
 drum*  
 Rose Bay Willowherb, *Epilobium*  
 Rose Mallow, *Alcea*  
 Rose Root, *Rhodiola*  
 Rosemary, *Rosmarinus*  
 Rosemary, Poet's, *Osyris*  
 Rosemary, Wild, *Ledum*  
 Rosemary, Lesser wild, *Andro-  
 meda*  
 Rue, *Ruta*  
 Rue, Dog's, *Scrophularia*  
 Rue, Goat's, *Galega*  
 Rue, Meadow, *Thalictrum*  
 Rue, Wall, *Asplenium*  
 Rue, Wild Syrian, *Peganum*  
 Rupture-wort, *Herniaria*  
 Rupture-wort, Least, *Linum*  
 Rush, *Juncus*  
 Rush, Flowering, *Butomus*

Rush, Lesser flowering, *Scheuch-  
 zeria*  
 Rush, Round, black-headed,  
 Marsh or Bog, *Schoenus*  
 Rush, Sweet, *Acorus*  
 Rush-grass, *Scirpus*  
 Ruyschiana, *Dracocephalon*  
 Rye, *Secale*  
 Rye, Wild, *Hordeum*  
 Rye-grass, *Hordeum*

S.

Saffron, *Crocus*  
 Saffron, Bastard, *Carthamus*  
 Saffron, Meadow, *Colchicum*  
 Sage, *Salvia*  
 Sage, Wild, *Teucrium*  
 Sage, Indian Wild, *Ecantana*  
 Sage, Wood, *Teucrium*  
 Sage of Jerusalem, *Pulmonaria*  
 Sage of Jerusalem, *Phlomis*  
 Sage-tree, *Phlomis*  
 Saint Bartholomew's Herb, *Ilex*  
 Saint Bruno's Lily, *Hemerocallis*  
 Saint John's Bread, *Ceratonia*  
 Saint John's-wort, *Hypericum*  
 Saint Peter's-wort, *Ascyrum*  
 Saint Peter's-wort, *Hypericum*  
 Saint Peter's-wort, Shrubby, *Lo-  
 nicera*  
 Saintfoin, *Hedysarum*  
 Sallad, Corn, *Valeriana*  
 Sal kali, *Salicornia*  
 Sallow, *Salix*  
 Saltfay, *Tragopogon*  
 Salt-wort, *Salicornia*  
 Salt-wort, Black, *Glaux*  
 Samphire, *Crithmum*  
 Samphire, Golden, *Inula*  
 Sandbox-tree, *Hura*  
 Sanders, see Saunders  
 Sanicle, *Sanicula*  
 Sanicle, *Saxifraga*

Sanicle,

- Sanicle, American Bastard, *Mitella*  
 Sanicle, Bear's-ear, *Cortusa*  
 Sappadillo-tree, *Sloanea*  
 Sapota, *Achras*  
 Sapota Mammee, *Achras*  
 Saracen's Confound, *Solidago*  
 Saracen's Confound, the true, *Senecio*  
 Saracen's Wound-wort, *Solidago*  
 Saracen's Wound-wort, The true, *Senecio*  
 Sassafras-tree, *Laurus*  
 Sassaify, see Salsafy  
 Sattin-flower, *Lunaria*  
 Sattin, White, *Lunaria*  
 Sauce alone, *Erysimum*  
 Savin, *Juniperus*  
 Savin-tree, Indian, *Bauhinia*  
 Saunders, *Santalum*  
 Savory, *Satureia*  
 Savoys, *Brassica*  
 Saw-wort, *Serratula*  
 Saxifrage, *Saxifraga*  
 Saxifrage, Burnet, *Pimpinella*  
 Saxifrage, Golden, *Chrysosplenium*  
 Saxifrage, Meadow, *Peucedanum*  
 Scabious, *Scabiosa*  
 Scabious, Sheep's, *Jasione*  
 Scallion, *Allium*  
 Scammony, Syrian, *Convolvulus*  
 Scammony of Montpelier, *Cynanchum*  
 Sciatica Cress, The true, *Lepidium*  
 Sciatica Cress, *Iberis*  
 Scorching Fennel, *Thapsia*  
 Scorpion-grass, *Scorpiurus*  
 Scorpion-grass, Mouse-ear, *Myosotis*  
 Scorpion Senna, *Coronilla*  
 Scorpion's Thorn, *Ulex*  
 Screw-tree, see Skrew-tree  
 Scull-cap, see Skull-cap  
 Scurvy-grass, *Cochlearia*  
 Seabeard, *Conserua rup*  
 Sea Weed, *Fucus*  
 Sebesten, *Cordia*  
 Sedum, Pyramidal, *Saxifraga*  
 Seed, Heart, *Cardiospermum*  
 Segs, *Iris*, *pseu*  
 Self-heal, *Brunella*  
 Self-heal, *Sanicula*  
 Senna of the Shops, *Cassia*  
 Senna, Bastard, *Cassia*  
 Senna, Bastard, *Colutea*  
 Senna, Jointed podded Bladder, *Coronilla*  
 Senna, Scorpion, *Coronilla*  
 Senna, Wild, *Cassia*  
 Senegal, Rattlesnake Root, *Polypogon*  
 Sengreen, *Sempervivum*  
 Sensitive Plant, *Mimosa*  
 Sensitive Plant, Bastard, *Eschynomene*  
 Septfoil, *Tormentilla*  
 Sermountain, *Laserpitium*  
 Serpent Cucumber, *Trichosanthes*  
 Serpent's Tongue, *Ophioglossum*  
 Service tree, *Sorbus*  
 Service, Maple-leaved, *Cratægus*  
 Service, Wild, *Cratægus*  
 Setfoil, see Septfoil  
 Setwall, see Zedoary  
 Setwall, Garden, *Valeriana*  
 Setter-wort, *Helleborus*  
 Shaddock, *Citrus*  
 Shallot, see Eschalot  
 Shavegrasses, *Equisetum*  
 Sheep Scabious, *Jasione*  
 Shepherd's Needle, *Scandix*  
 Shepherd's Pouch, *Thlaspi*  
 Shepherd's Rod, *Dipsacus*  
 Shepherd's Staff, *Dipsacus*  
 Shot, Indian, *Canna*  
 Shot, plantain, *Canna*

Sickle-wort, *Coronilla*  
 Side-saddle Flower, *Sarracena*  
 Silk, Cotton-tree, *Bombax*  
 Silk, Virginian, *Periploca*  
 Silver Bush, *Anthyllis*  
 Silver-tree, *Præa*  
 Silver-weed, *Potentilla*  
 Simpla Nobla, *Phyllis*  
 Simpler's Joy, *Verbenæ*  
 Skirret, *Sium*  
 Skull-cap, *Scutellaria*  
 Skrew-tree, *Helicteres*  
 Sloe-tree, *Prunus*  
 Sloke, *Ulva*  
 Smallage, *Apium*  
 Snails, *Medicago*  
 Snail Clover, *Medicago*  
 Snail Trefoil, *Medicago*  
 Snakeweed, *Polygonum*  
 Snake Root, *Aristolochia*  
 Snake Root, Black or Wild, of  
 America, *Aclæa*  
 Snap-tree, *Justicia*  
 Snap Dragon, *Antirrhinum*  
 Snap Dragon of America, *Ruellia*  
 Sneeze-wort, *Achillea*  
 Sneeze-wort, Austrian, *Xeran-*  
*themum*  
 Snowball-tree, *Viburnum*  
 Snowberry-bush, *Lonicera*  
 Snow-drop, *Galanthus*  
 Snow-drop, Greater, *Leucojum*  
 Snowdrop-tree, *Chionanthus*  
 Soap Apple, *Sapindus*  
 Soap Berry, *Sapindus*  
 Soap-wort, *Saponaria*  
 Soldanel, *Soldanella*  
 Soldanel of the Shops, *Convol-*  
*vulus*  
 Soldier, Water, *Stratiotes*  
 Soldier, Fresh Water, *Stratiotes*  
 Soldier's Cullions, *Orchis*

Solomon's Seal, *Convallaria*  
 Solomon's Seal, Pennsylvania,  
*Uvularia*  
 Sorgo, *Holcus*  
 Sorrel, *Rumex*  
 Sorrel, Indian Red, *Hibiscus*  
 Sorrel, Indian White, *Hibiscus*  
 Sorrel, Wood, *Oxalis*  
 Sorrel-tree, *Andromeda*  
 Sorrowful-tree, *Nyctanthus*  
 Sour Gourd, Ethiopian, *Adan-*  
*sonia*  
 Sour Soap, *Annona*  
 Southernwood, *Artemisia*  
 South-sea Tea, *Ilex*  
 Sow-bread, *Cyclamen*  
 Sowruck, *Rumex acet*  
 Sow Thistle, *Sonchus*  
 Sow Thistle, *Prenanthes*  
 Sow Thistle, Downy, *Andryala*  
 Sow Thistle, Tangier, *Scorzonera*  
 Sparrow-grass, see Asparagus  
 Sparrow-wort, *Passerina*  
 Sparrow-wort, Tragus's, *Stellera*  
 Spatling Poppy, *Cucubalus*  
 Spear-wort, *Ranunculus*  
 Speerage, see Asparagus  
 Speedwell, *Veronica*  
 Speedwell, Female, *Antirrhinum*  
 Spice Wood, *Laurus*  
 Spice, All, *Myrtus*  
 Spider-wort, *Anthericum*  
 Spider-wort, Great Savoy, *He-*  
*merocallis*  
 Spider-wort, Virginian, *Tradef-*  
*cantia*  
 Spignel, *Athamanta*  
 Spignel, Wild, *Seseli*  
 Spike-grass, Winged, *Stipa*  
 Spikenard, Bastard French, *Nar-*  
*dus*

Spike-

Spikenard, Celtic, *Valeriana*  
 Spiknard, False, *Lavandula*  
 Spikenard, Plowman's, *Baccharis*  
 Spikenard, Plowman's, *Conyza*  
 Spikenard, Wild, *Asarum*  
 Spinach, *Spinacia*  
 Spinach, Strawberry, *Blitum*  
 Spindle-tree, *Euonymus*  
 Spindle-tree, Climbing, *Celastrus*  
 Spindle-tree, Bastard, *Kiggellaria*  
 Spindle-tree, Bastard, *Celastrus*  
 Spiræa Frutex, *Spiræa*  
 Spiræa, African, *Diosma*  
 Spirting Cucumber, *Momordica*  
 Spleen-wort, *Asplenium*  
 Spleen-wort, Rough, *Lonchitis*  
 Spleen-wort, Rough, *Polypodium*  
 Spoon-wort, *Cochlearia*  
 Sponge-tree, *Mimosa*  
 Spurge, *Euphorbia*  
 Spurge, Bastard, *Euphorbia*  
 Spurge Laurel, *Daphne*  
 Spurge Olive, *Daphne*  
 Spurrey, *Spergula*  
 Squash, *Cucurbita*  
 Squill, *Scilla*  
 Squill, Lesser White, *Pancratium*  
 Staff-tree, *Celastrus*  
 Staff, Shepherd's, *Dipsacus*  
 Stag's-horn-tree, *Rhus*  
 Star of Alexandria, *Ornithogalum*  
 Star Apple, *Chrysophyllum*  
 Star of Bethlehem, *Ornithogalum*  
 Star of Constantinople, *Ornithogalum*  
 Star Hyacinth, *Scilla*  
 Star of Naples, *Ornithogalum*  
 Star Thistle, *Centaurea*  
 Star-wort, *Aster*

Star-wort, Bastard, *Bupbthalmum*  
 Star-wort, Trailing, of Vera-Cruz, *Tridax*  
 Star-wort, Yellow, *Inula*  
 Star-wort, Yellow, *Bupbthalmum*  
 Staves Acre, *Delphinium*  
 Stich-wort, *Stellaria*  
 Stink-horns, *Phallus*  
 Stock, *Cheiranthus*  
 Stock July-flower, *Cheiranthus*  
 Stock Dwarf Annual, *Hesperis*  
 Stock, Virginian, *Hesperis*  
 Stone Crop, *Sedum*  
 Stone-crop-tree, *Chenopodium*  
 Stone Parsley, *Bubon*  
 Stone Parsley, Bastard, *Sison*  
 Storax-tree, *Styrax*  
 Storax, Liquid, *Liquidambar*  
 Strawberry, *Fragaria*  
 Strawberry, Barren, *Potentilla*  
 Strawberry, Barren, *Eragaria*  
 Strawberry Blite, *Blitum*  
 Strawberry Spinach, *Blitum*  
 Strawberry-tree, *Arbutus*  
 Succory, *Cichorium*  
 Succory, Gum, *Chondrilla*  
 Succory, Wart, *Lapsana*  
 Sugar Cane, *Saccharum*  
 Sulphur-wort, *Peucedanum*  
 Sultan-flower, *Centaurea*  
 Sumach, *Rhus*  
 Sumach, Myrtle-leaved, *Coriaria*  
 Sumach, Tanner's or Currier's, *Coriaria*  
 Sundew, *Drosera*  
 Sun-flower, *Helianthus*  
 Sun-flower, Bastard, *Helenia*  
 Sun-flower, Dwarf, *Rubeckia*  
 Sun-flower, Dwarf, *Tetragonotheca*  
 Sun-flower, Little, *Cistus*  
 Sun-flower, Tickseeded, *Coreopsis*  
 Sun-

Sun-flower, Willow-leaved, *Helenia*  
 Superb Lily, *Gloriosa*  
 Swallow-wort, *Asclepias*  
 Sweet Briar, *Rosa*  
 Sweet Cicely, *Scandix*  
 Sweet Gum, *Liquidambar*  
 Sweet John, *Dianthus*  
 Sweet Root, *Glycyrrhiza*  
 Sweet Sop, *Annona*  
 Sweet Sultan, *Centaurea*  
 Sweet Weed, *Capraria*  
 Sweet William, *Dianthus*  
 Sweet William of Barbadoes, *Ipomæa*  
 Swine's Cress, *Cochlearia*  
 Sycamore, *Ficus*  
 Sycamore False, *Acer*  
 Syringa, commonly called, *Philadelphus*

T,

Tacamahaca, *Populus*  
 Tallow-tree, *Croton*  
 Tamarind-tree, *Tamarindus*  
 Tamarisk, *Tamarix*  
 Tansey, *Tanacetum*  
 Tansey, Wild, *Potentilla*  
 Tare, *Vicia*  
 Taragon, *Artemisia*  
 Tarton-raire, *Daphne*  
 Tea-tree, *Thea*  
 Tea, False, *Ilex*  
 Tea, New Jersey, *Ceanothus*  
 Tea, Oswego, *Monarda*  
 Tea, Paraguay, *Ilex*  
 Tea, South-sea, *Ilex*  
 Teasel, *Dipsacus*  
 Tent-wort, *Asplenium*  
 Thistle, *Carduus*  
 Thistle, Blessed, *Cnicus*  
 Thistle Carline, *Carlina*  
 Thistle, Distaf, *Atractylis*

Thistle, Distaf, *Carthamus*  
 Thistle, Fish, *Carduus*  
 Thistle, Fuller's, *Dipsacus*  
 Thistle, Gentle, *Carduus*  
 Thistle, Globe, *Echinops*  
 Thistle, Golden, *Scolymus*  
 Thistle, Hedge-hog, *Cactus*  
 Thistle, Holy, *Cnicus*  
 Thistle, Ladies, *Carduus*  
 Thistle, Melancholy, *Carduus*  
 Thistle, Melon, *Cactus*  
 Thistle, Milk, *Carduus*  
 Thistle, Soft, *Carduus*  
 Thistle, Sow, *Sonchus*  
 Thistle, Sow, *Prenanthes*  
 Thistle, Downy Sow, *Andryala*  
 Thistle, Star, *Centaurea*  
 Thistle, Torch, *Cactus*  
 Thistle, Wooly, *Onopordon*  
 Thongs, *Fucus lor.*  
 Thorn, Black, *Prunus*  
 Thorn, Box, *Lycium*  
 Thorn, Christ's *Rhamnus*  
 Thorn, Egyptian, *Mimosa*  
 Thorn, Evergreen, *Mespilus*  
 Thorn, Goat's, *Astragalus*  
 Thorn, Lily, *Catesbæa*  
 Thorn, Purging, *Rhamnus*  
 Thorn, Scorpion's *Ulex*  
 Thorn, Spanish Hedge-hog, *Anthyllis*  
 Thorn, White, *Cratægus*  
 Thorn, Apple, *Datura*  
 Thorny Plant, Burning, *Euphorbia*  
 Thorough Wax, *Bupleurum*  
 Three Faces under a Hood, *Viola*  
 Three-leav'd Grass, *Trifolium*  
 Thrift, *Statice*  
 Throat-wort, *Campanula*  
 Throat-wort, *Trachelium*  
 Thyme, *Thymus*  
 Thyme, Dodder of, *Cuscuta*

Thyme,

Thyme, *Mastick*, *Satureia*  
 Tickseed, *Corispermum*  
 Tills, *Ervum*  
 Timothy-grass, *Pbleum*  
 Tinker's Weed, *Triosteum*  
 Toad Flax, *Antirrhinum*  
 Tobacco, *Nicotiana*  
 Tolu-tree, Balsam of, *Toluifera*  
 Tomatoes, *Solanum*  
 Tooth-ach-tree, *Zanthoxylum*  
 Tooth-pick, *Daucus*  
 Tooth-wort, *Dentaria*  
 Tooth-wort, *Plumbago*  
 Torch-Thistle, *Cactus*  
 Tormentil, *Tormentilla*  
 Touch me not, *Impatiens*  
 Touch me not, *Momordica*  
 Tower Mustard, *Turritis*  
 Tower Mustard, Bastard, *Arabis*  
 Tragacanth, Gum, *Astragalus*  
 Tragus's Sparrow-wort, *Stellera*  
 Traveller's Joy, *Clematis*  
 Treacle Mustard, *Clypeola*  
 Treacle Mustard, *Tblaspi*  
 Tree Moss, *Lichen*  
 Trefoil, *Trefolium*  
 Trefoil, Bean, *Citifus*  
 Trefoil, Stinking Bean, *Anagyris*  
 Trefoil Bird's-foot, *Lotus*  
 Trefoil, Marsh, *Menyanthes*  
 Trefoil, Moon, *Medicago*  
 Trefoil, Shrub, *Ptelea*  
 Trefoil of Montpelier, Shrub,  
*Lotus*  
 Trefoil, Snail, *Medicago*  
 Trefoil, Thorny, of Candia, *Fa-*  
*gonia*  
 Trefoil Tree, *Cytifus*  
 Trefoil Base-tree, *Cytifus*  
 Trinity-herb, *Viola*  
 Triple Ladies Traces, *Ophrys*  
 True-love, *Paris*  
 True-love of Canada, *Trillium*  
 Truffles, *Lycoperdon tub*

Trumpet-flower, *Bignonia*  
 Tuberoze, *Polyanthes*  
 Tulip, *Tulipa*  
 Tulip, African, *Hæmanthes*  
 Tulip, Chequer'd, *Fritillaria*  
 Tulip-flower, *Bignonia*  
 Tulip-tree, *Liriodendrum*  
 Tulip-tree, Laurel-leaved, *Mag-*  
*nolia*  
 Tun Hoot, *Glechoma*  
 Tupelo-tree, *Nyssa*  
 Turbith Indian, or of the Shops,  
*Convolvulus*  
 Turbith, Garganic, *Thapsia*  
 Turkey-feather, *Ulva pav.*  
 Turk's Cap, *Lilium*  
 Turk's Head, *Cactus*  
 Turk's Turban, *Ranunculus*  
 Turnep, *Brassica*  
 Turnep French, *Brassica*  
 Turmeric, *Curcuma*  
 Turnsole, *Heliotropium*  
 Turpentine-tree, *Pistacia*  
 Tuscan, *Hypericum*  
 Twopence, Herb, *Lyfimachia*  
 Tway Blade, *Ophrys*  
 Twy Blade, *Ophrys*

## V.

Valerian, *Valeriana*  
 Valerian, Greek, *Polemonium*  
 Vanilla, or Vaneloe, *Epidendrum*  
 Vernal-grass, *Anthoxanthum*  
 Venus's Comb, *Scandix*  
 Venus's Looking-glass, *Campanula*  
 Venus's Navel-wort, *Cynoglossum*  
 Vervain, *Verbena*  
 Vervain Mallow, *Malva*  
 Vetch, *Vicia*  
 Vetch, Ax, see Hatchet Vetch  
 Vetch, Bitter, *Ervum*

Vetch,

- Vetch, Bitter, *Orobus*  
 Vetch, Jointed, Podded Bitter, *Ervum*  
 Vetch, Chichling, *Lathyrus*  
 Vetch, Crimson Grass, *Lathyrus*  
 Vetch, Hatchet, *Coronilla*  
 Vetch, Clufius's foreign Hatchet, *Biserrula*  
 Vetch, Horse-shoe, *Hippocrepis*  
 Vetch, Kidney, *Anthyllis*  
 Vetch, Liquorice, *Astragalus*  
 Vetch, Knobbed-rooted Liquorice, *Glycene*  
 Vetch, Milk, *Astragalus*  
 Vetch, Bastard, Milk, *Phaca*  
 Vetch, Venetian, *Orobus*  
 Vetch, Medic, *Hedysarum*  
 Vetchling, *Hedysarum*  
 Vetchling, Medic, *Hedysarum*  
 Vetchling, Yellow, *Lathyrus*  
 Virburnum, American, *Lantana*  
 Vine, *Vitis*  
 Vine, Black, *Tamus*  
 Vine, Climbing five-leaved, of Canada, *Hedera*  
 Vine, Spanish Arbor, *Ipomoea*  
 Vine, White, *Bryonia*  
 Violet, *Viola*  
 Violet, Bulbous, *Galanthus*  
 Violet, Calathian, *Gentiana*  
 Violet, Dame's, *Hesperis*  
 Violet, Dog's Tooth, *Erythronium*  
 Violet, Queen's, *Hesperis*  
 Violet, Water, *Hottonia*  
 Vipers's Buglos, *Echium*  
 Viper's Grass, *Scorzonera*  
 Virgin's Bower, *Clematis*  
 Vitæ, Arbor, *Thuja*  
 Vitæ, Lignum, *Guaiacum*  
 Umbrella-tree *Magnolia*.
- W.
- Walnut, *Juglans*  
 Walnut, Jamaica, *Hura*  
 Wall-wort, *Sambucus*  
 Wanhom, *Kampferia*  
 Ware-sea, *Fucus ves*  
 Wart Succory, *Lapsana*  
 Wart-wort, *Euphorbia*  
 Wart-wort, *Heliotropium*  
 Wort-wort, *Lapsana*  
 Water-leaf, *Hydrophyllum*  
 Water Soldier, *Stratiotes*  
 Wayfaring-tree, *Viburnum*  
 Weld, *Reseda*  
 Wheat, *Triticum*  
 Wheat, Buck, *Polygonum*  
 Wheat, Cow, *Mytampyrum*  
 Wheat, French, *Polygonum*  
 Wheat, Indian, *Zea*  
 Wheat, Turkey, *Zea*  
 Whin, *Ulex*  
 Whin, Petty, *Ononis*  
 Whistles Sea, *Fucus nod*  
 White Beam-tree, *Cratægus*  
 White Leaf-tree, *Cratægus*  
 White Sattin, *Lunaria*  
 White Wood *Bignonia*  
 Whitlow Grass, *Draba*  
 Whitlow Grass, Rue-leaved, *Saxifraga*  
 Whortle Berry *Vaccinium*  
 Whortle Berry, African, *Royena*  
 Whorts, Black, *Vaccinium*  
 Whorts, Bog, *Vaccinium*  
 Whorts, Red, *Vaccinium*  
 Whorts, Spanish Red, *Arbutus*  
 Wicken-tree *Sorbus*  
 Widow Wail, *Cneorum*  
 Willow, *Salix*  
 Willow, French, *Epilobium*  
 Willow Spiked, of Theophrastus, *Spiræa*  
 Willow, Sweet, *Myrica*  
 Willow, Herb, *Epilobium*  
 Willow, Herb, *Lythrum*  
 Willow,

Willow, Herb, *Lysimachia*  
 Willow Herb, Rosebay, *Epilobium*  
 Wind-flower, *Anemone*  
 Wind-feed, *Arctotis*  
 Winged spiked Grass, *Stipa*  
 Winter Berry, *Prinos*  
 Winter Bloom, *Azalea*  
 Winter Cherry, *Physalis*  
 Winter Cherry, *Solanum*  
 Winter Green, *Pyrola*  
 Winter Green, Ivy-flowering, *Kalmia*  
 Winter Green, with Chickweed Flowers, *Trientalis*  
 Winter's Bark, *Wintera*  
 Witch Hazel, *Hamamelis*  
 Witch Hazel, *Ulmus*  
 Woad, *Isatis*  
 Woad, Wild, *Reseda*  
 Wolf's Bane, *Aconitum*  
 Wolf's Bane, Winter, *Helleborus*  
 Wolf's Peach, *Solanum*  
 Woodbind, *Lonicera*  
 Woodbind, Spanish, *Ipomoea*  
 Wood of Life, *Guaiacum*  
 Wood Anemone, *Anemone*  
 Wood Sorrel, *Oxalis*  
 Woodroof, *Asperula*

Woodwaxen, *Genista*  
 Worm-grafs, *Spigelia*  
 Worm-feed, *Chenopodium*  
 Wormwood, *Artemisia*  
 Wormwood, Wild, *Parthenium*  
 Wortle, Petroseline, *Aipum*  
 Would, *Reseda*  
 Wound-wort of Achilles, *Achillea*  
 Wound-wort, Clown's, *Stachys*  
 Wound wort, Saracen's, *Solidago*  
 Wound-wort, Saracens, the true, *Senecio*  
 Wrack, *Fucus*  
 Wrack, Grass, *Zostera*

## Y.

Yams, *Dioscorea*  
 Yapon, *Ilex*  
 Yarrow, *Achillea*  
 Yellow Weed, *Reseda*  
 Yerva Mora, *Bosea*  
 Yew-tree, *Taxus*

## Z.

Zedoary, round, *Kæmpferia*  
 Zedoary, long, *Amomum*  
 Zerumbeth, *Amomum*.















